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Main schema videoMD.xsd

Namespace	http://www.loc.gov/videoMD/
Definition	VIDEOMD: LC-AV Video Metadata Extension Schema. VIDEOMD contains technical metadata that describe a digital video object. VIDEOMD contains 36 top-level elements. videoType has 2 attributes, ID: (XML ID) ANALOGDIGITALFLAG: A major indicator of the type of video object i.e Analog, PhysDigital, or FileDigital.
Properties	Attribute Form Default: **unqualified** Element Form Default: **qualified**

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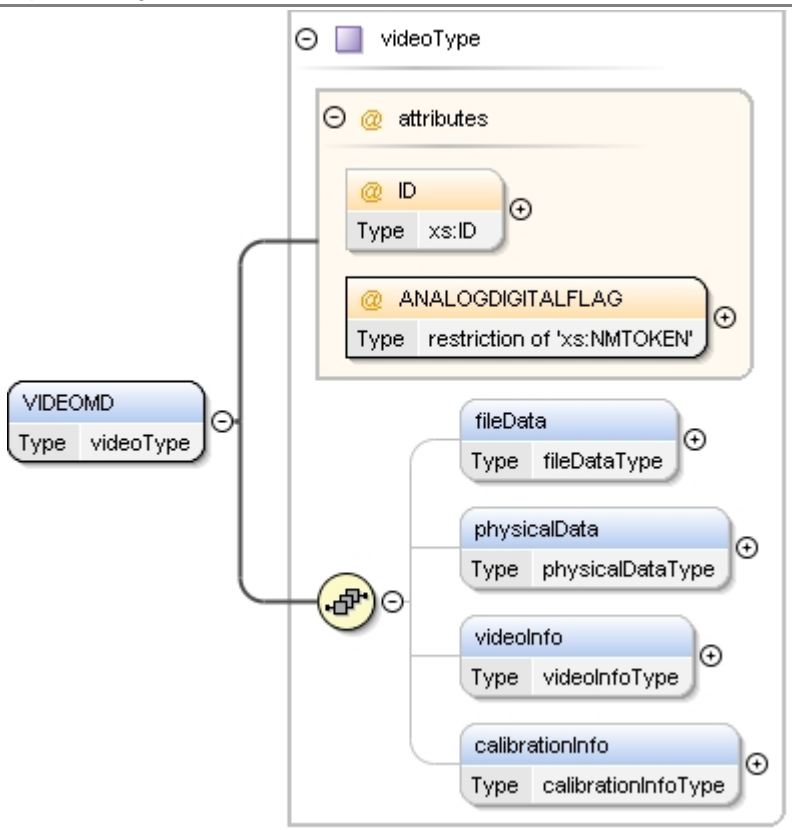
Element VIDEOMD

Namespace	http://www.loc.gov/videoMD/
Diagram	
Type	**videoType**
Properties	Content: **complex**
Model	**fileData{0,1}** , **physicalData{0,1}** , **videoInfo{0,1}** , **calibrationInfo{0,1}**
Children	**calibrationInfo**, **fileData**, **physicalData**, **videoInfo**
Instance	<VIDEOMD ANALOGDIGITALFLAG="" ID=""> <fileData>{0,1}</fileData> <physicalData>{0,1}</physicalData>

```
  <videoInfo>{0,1}</videoInfo>
  <calibrationInfo ID="">{0,1}</calibrationInfo>
</VIDEOMD>
```

Attributes

QName	Type	Fixed	Default	Use	Annotation
ANALOGDIGITALFLAG	restriction of **xs:NMTOKEN**			required	
ID	**xs:ID**			optional	

Source

```
<xs:element name="VIDEOMD" type="videoType"/>
```

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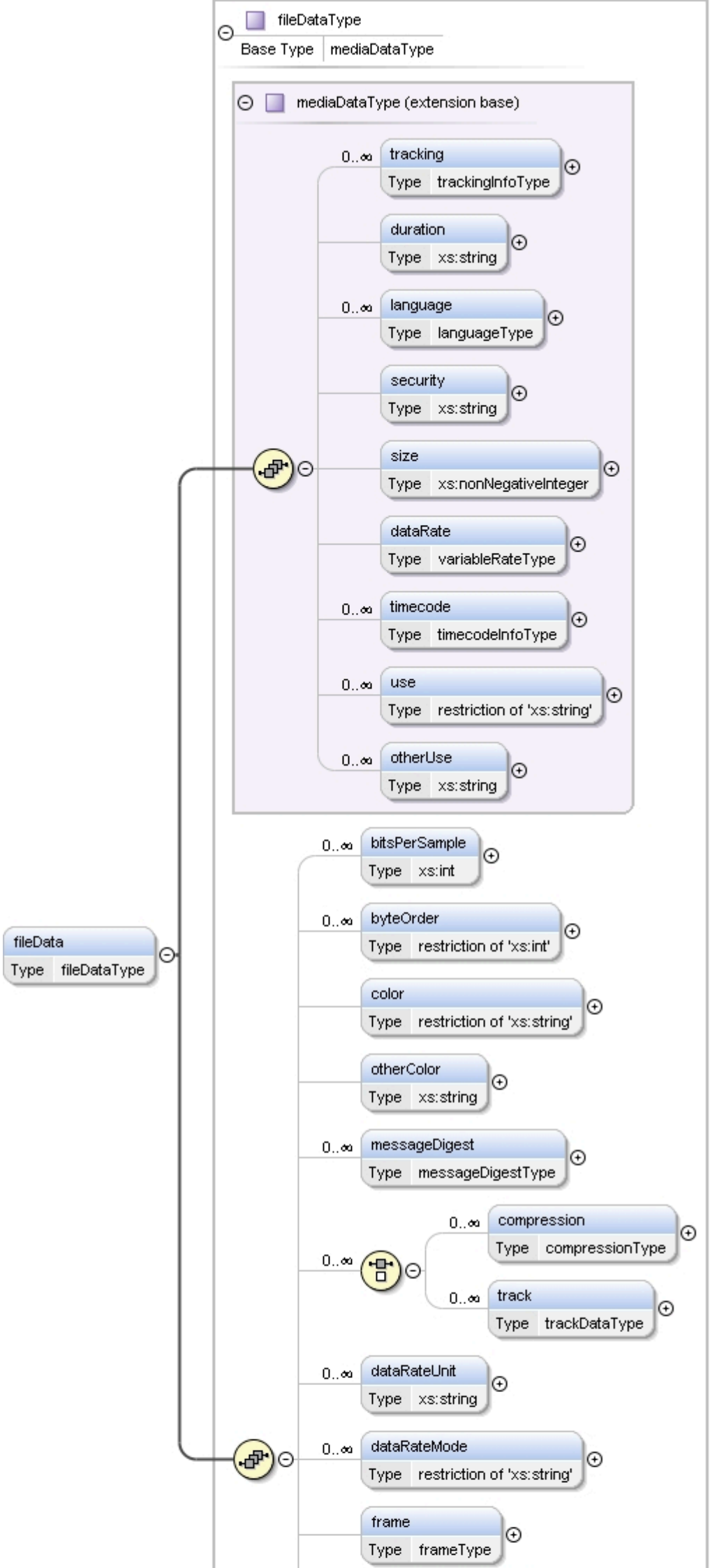
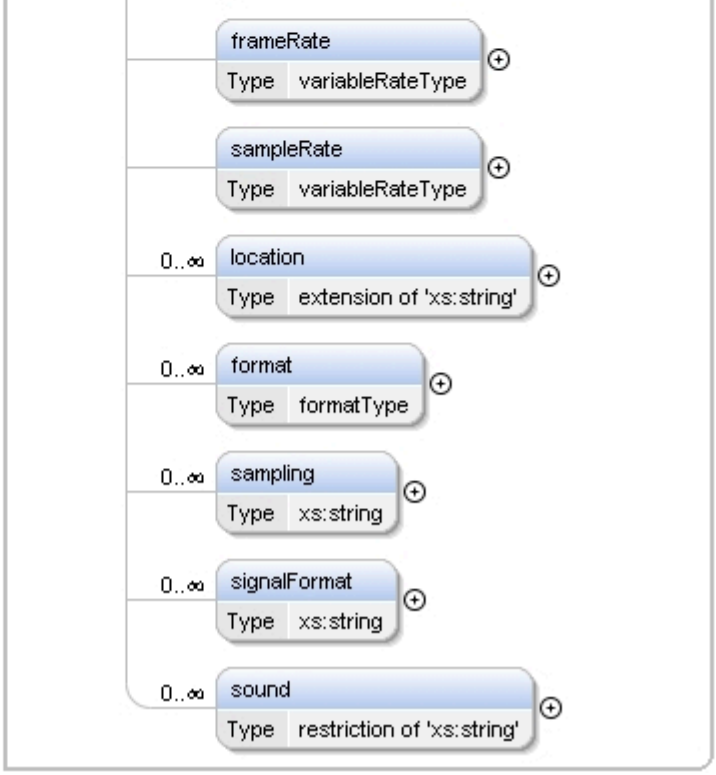
Element videoType / fileData

Namespace	http://www.loc.gov/videoMD/

Diagram	


fileDataType
Base Type
mediaDataType
mediaDataType (extension base)
0..∞
tracking
Type
trackingInfoType
duration
Type
xs:string
0..∞
language
Type
languageType
security
Type
xs:string
size
Type
xs:nonNegativeInteger
dataRate
Type
variableRateType
0..∞
timecode
Type
timecodeInfoType
0..∞
use
Type
restriction of 'xs:string'
0..∞
otherUse
Type
xs:string
fileData
Type
fileDataType
0..∞
bitsPerSample
Type
xs:int
0..∞
byteOrder
Type
restriction of 'xs:int'
color
Type
restriction of 'xs:string'
otherColor
Type
xs:string
0..∞
messageDigest
Type
messageDigestType
0..∞
0..∞
compression
Type
compressionType
0..∞
track
Type
trackDataType
0..∞
dataRateUnit
Type
xs:string
0..∞
dataRateMode
Type
restriction of 'xs:string'
frame
Type
frameType



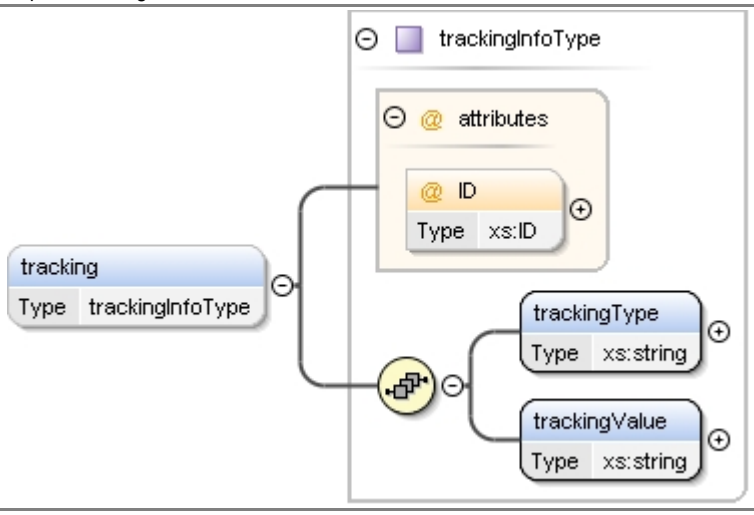
Type	**fileDataType**
Type hierarchy	**mediaDataType** ↳ **fileDataType**
Properties	Content: **complex** MinOccurs: **0**
Model	**tracking*** , **duration{0,1}** , **language*** , **security{0,1}** , **size{0,1}** , **dataRate{0,1}** , **timecode*** , **use*** , **otherUse*** , **bitsPerSample*** , **byteOrder*** , **color{0,1}** , **otherColor{0,1}** , **messageDigest*** , (**compression*** | **track***) , **dataRateUnit*** , **dataRateMode*** , **frame{0,1}** , **frameRate{0,1}** , **sampleRate{0,1}** , **location*** , **format*** , **sampling*** , **signalFormat*** , **sound***
Children	**bitsPerSample**, **byteOrder**, **color**, **compression**, **dataRate**, **dataRateMode**, **dataRateUnit**, **duration**, **format**, **frame**, **frameRate**, **language**, **location**, **messageDigest**, **otherColor**, **otherUse**, **sampleRate**, **sampling**, **security**, **signalFormat**, **size**, **sound**, **timecode**, **track**, **tracking**, **use**

Instance	`<fileData>`
	`  <tracking ID="">{0,unbounded}</tracking>`
	`  <duration>{0,1}</duration>`
	`  <language>{0,unbounded}</language>`
	`  <security>{0,1}</security>`
	`  <size>{0,1}</size>`
	`  <dataRate maximum="" minimum="" mode="" nominal="" unit="">{0,1}</dataRate>`
	`  <timecode ID="">{0,unbounded}</timecode>`
	`  <use>{0,unbounded}</use>`
	`  <otherUse>{0,unbounded}</otherUse>`
	`</fileData>`

Source	`<xs:element name="fileData" type="fileDataType" minOccurs="0"/>`

[top]

Element mediaDataType / tracking

Namespace	http://www.loc.gov/videoMD/
Diagram	

Type	**trackingInfoType**
Properties	Content: **complex** MinOccurs: **0** MaxOccurs: **unbounded**
Model	**trackingType** , **trackingValue**
Children	**trackingType**, **trackingValue**

Instance	`<tracking ID="">`
	`  <trackingType>{1,1}</trackingType>`
	`  <trackingValue>{1,1}</trackingValue>`
	`</tracking>`

Attributes

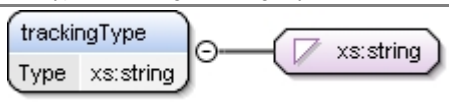
QName	Type	Fixed	Default	Use	Annotation
ID	**xs:ID**			optional	

Source

```
<xs:element name="tracking" type="trackingInfoType" minOccurs="0" maxOccurs="unbounded"/>
```

[top]

Element trackingInfoType / trackingType

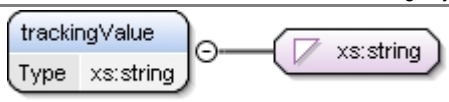
Namespace	http://www.loc.gov/videoMD/
Definition	The type of tracking code, e.g., system number, actual shelf numbers, bar-code, etc..
Diagram	
Type	**xs:string**
Properties	Content: **simple**

Source

```
<xs:element name="trackingType" type="xs:string">
  <xs:annotation>
    <xs:documentation>The type of tracking code, e.g., system number, actual shelf numbers, bar-code, etc..
</xs:documentation>
  </xs:annotation>
</xs:element>
```

[top]

Element trackingInfoType / trackingValue

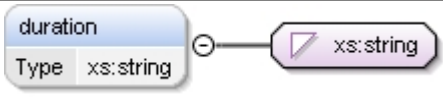
Namespace	http://www.loc.gov/videoMD/
Definition	Shelf number or other identifier for source, e.g., system number, actual shelf numbers, etc..
Diagram	
Type	**xs:string**
Properties	Content: **simple**

Source

```
<xs:element name="trackingValue" type="xs:string">
  <xs:annotation>
    <xs:documentation>Shelf number or other identifier for source, e.g., system number, actual shelf numbers,
etc..</xs:documentation>
  </xs:annotation>
</xs:element>
```

[top]

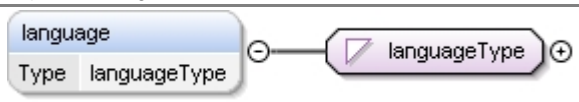
Element mediaDataType / duration

Namespace	http://www.loc.gov/videoMD/
Definition	Elapsed time of the entire file, expressed using ISO 8601 syntax; see http://www.w3.org/TR/NOTE-datetime.
Diagram	
Type	**xs:string**
Properties	Content: **simple** MinOccurs: **0**

Source	<xs:element name="duration" type="xs:string" minOccurs="0"> <xs:annotation> <xs:documentation>Elapsed time of the entire file, expressed using ISO 8601 syntax; see http://www.w3.org/TR/NOTE-datetime. </xs:documentation> </xs:annotation> </xs:element>

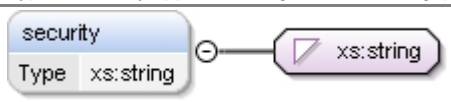
[top]

Element mediaDataType / language

Namespace	http://www.loc.gov/videoMD/
Diagram	
Type	**languageType**
Properties	Content: **simple** MinOccurs: **0** MaxOccurs: **unbounded**
Facets	Pattern **([a-z]{3})?**
Source	<xs:element name="language" type="languageType" minOccurs="0" maxOccurs="unbounded"/>

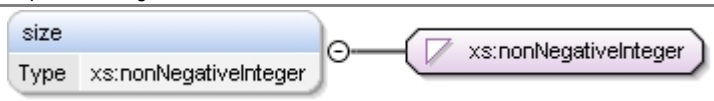
[top]

Element mediaDataType / security

Namespace	http://www.loc.gov/videoMD/
Definition	Type of security applied to a digital video file e.g. password, encryption, hidden, etc....
Diagram	
Type	**xs:string**
Properties	Content: **simple** MinOccurs: **0**
Source	<xs:element name="security" type="xs:string" minOccurs="0"> <xs:annotation> <xs:documentation>Type of security applied to a digital video file e.g. password, encryption, hidden, etc....</xs:documentation> </xs:annotation> </xs:element>

[top]

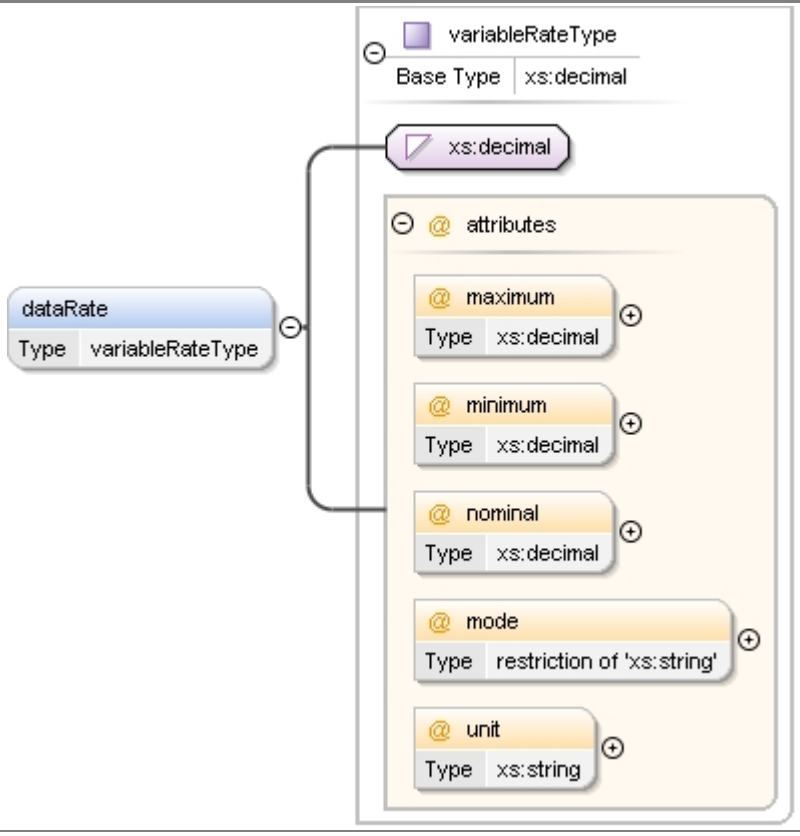
Element mediaDataType / size

Namespace	http://www.loc.gov/videoMD/
Diagram	
Type	**xs:nonNegativeInteger**
Properties	Content: **simple** MinOccurs: **0**
Source	<xs:element name="size" type="xs:nonNegativeInteger" minOccurs="0"/>

[top]

Element mediaDataType / dataRate

Namespace	http://www.loc.gov/videoMD/
Definition	Data rate of the audio in an MPEG or other compressed file expressed in mbps, e.g., 8, 12, 15, etc.

Diagram	
Type	**variableRateType**
Properties	Content: **complex** MinOccurs: **0**

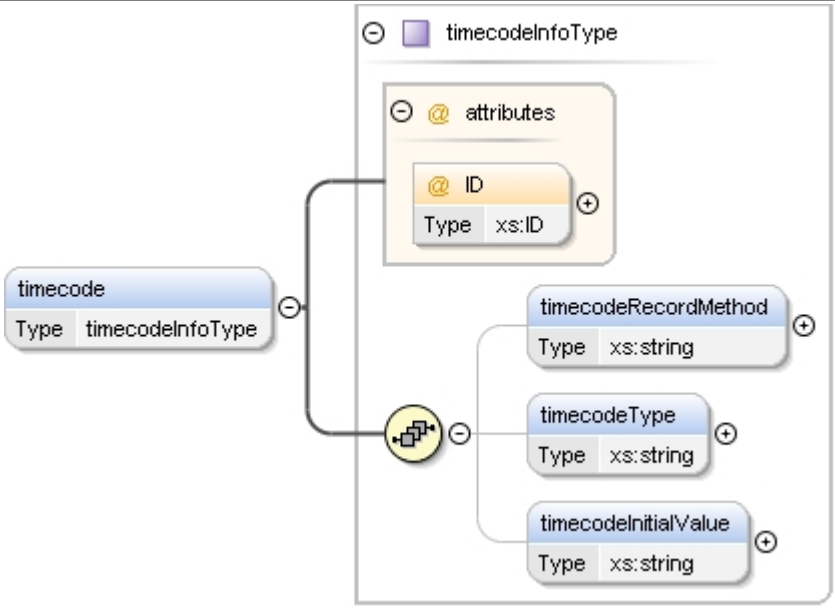
Attributes					
QName	Type	Fixed	Default	Use	Annotation
maximum	**xs:decimal**			optional	
minimum	**xs:decimal**			optional	
mode	restriction of **xs:string**			optional	Indicator that the rate of the video is fixed or variable.
nominal	**xs:decimal**			optional	
unit	**xs:string**			optional	

Source

```
<xs:element name="dataRate" type="variableRateType" minOccurs="0">
  <xs:annotation>
    <xs:documentation>Data rate of the audio in an MPEG or other compressed file expressed in mbps, e.g., 8,
12, 15, etc.</xs:documentation>
  </xs:annotation>
</xs:element>
```

[top]

Element mediaDataType / timecode

Namespace	http://www.loc.gov/videoMD/
Diagram	
Type	**timecodeInfoType**
Properties	Content: **complex**

MinOccurs:	**0**
MaxOccurs:	**unbounded**

Model	**timecodeRecordMethod{0,1}** , **timecodeType{0,1}** , **timecodeInitialValue{0,1}**
Children	**timecodeInitialValue**, **timecodeRecordMethod**, **timecodeType**

Instance	`<timecode ID="">`
	`  <timecodeRecordMethod>{0,1}</timecodeRecordMethod>`
	`  <timecodeType>{0,1}</timecodeType>`
	`  <timecodeInitialValue>{0,1}</timecodeInitialValue>`
	`</timecode>`

Attributes

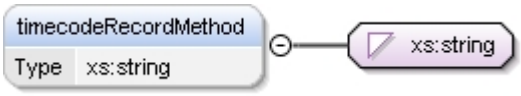
QName	Type	Fixed	Default	Use	Annotation
ID	**xs:ID**			optional	

Source

```
<xs:element name="timecode" type="timecodeInfoType" minOccurs="0" maxOccurs="unbounded"/>
```

[top]

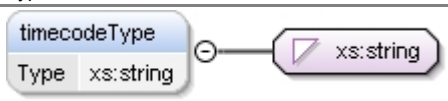
Element timecodeInfoType / timecodeRecordMethod

Namespace	http://www.loc.gov/videoMD/
Definition	Method for recording timecode on the video source item
Diagram	
Type	**xs:string**
Properties	Content: **simple** MinOccurs: **0**

Source	`<xs:element name="timecodeRecordMethod" type="xs:string" minOccurs="0">`
	`  <xs:annotation>`
	`  <xs:documentation>Method for recording timecode on the video source item</xs:documentation>`
	`  </xs:annotation>`
	`</xs:element>`

[top]

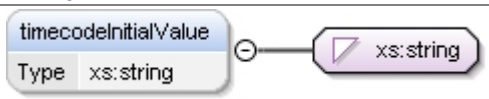
Element timecodeInfoType / timecodeType

Namespace	http://www.loc.gov/videoMD/
Definition	Type of timecode recorded on video source item, e.g., SMPTE dropframe, SMPTE nondropframe, etc..
Diagram	
Type	**xs:string**
Properties	Content: **simple** MinOccurs: **0**

Source	`<xs:element name="timecodeType" type="xs:string" minOccurs="0">`
	`  <xs:annotation>`
	`  <xs:documentation>Type of timecode recorded on video source item, e.g., SMPTE dropframe, SMPTE nondropframe, etc..</xs:documentation>`
	`  </xs:annotation>`
	`</xs:element>`

[top]

Element timecodeInfoType / timecodeInitialValue

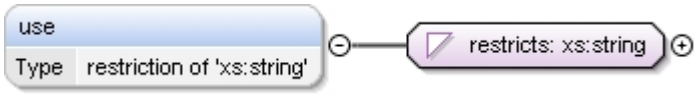
Namespace	http://www.loc.gov/videoMD/
Definition	Starting value for timecode.
Diagram	
Type	**xs:string**
Properties	Content: **simple** MinOccurs: **0**

Source	

```
<xs:element name="timecodeInitialValue" type="xs:string" minOccurs="0">
  <xs:annotation>
    <xs:documentation>Starting value for timecode.</xs:documentation>
  </xs:annotation>
</xs:element>
```

[top]

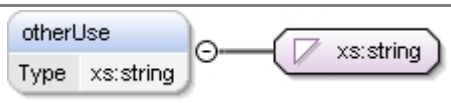
Element mediaDataType / use

Namespace	http://www.loc.gov/videoMD/
Definition	Use of the digital video file, e.g. Master, Service, Preview, etc..... Use Other if none of the preceding values pertains and clarify the use in the otherUse element
Diagram	
Type	restriction of **xs:string**
Properties	Content: **simple** MinOccurs: **0** MaxOccurs: **unbounded**
Facets	Enumeration **Master** Enumeration **Service** Enumeration **Service_High** Enumeration **Service_Low** Enumeration **Preview** Enumeration **Other**
Source	


```
<xs:element name="use" minOccurs="0" maxOccurs="unbounded">
  <xs:annotation>
    <xs:documentation>Use of the digital video file, e.g. Master, Service, Preview, etc..... Use Other if
none of the preceding values pertains and clarify the use in the otherUse element</xs:documentation>
  </xs:annotation>
  <xs:simpleType>
    <xs:restriction base="xs:string">
      <xs:enumeration value="Master"/>
      <xs:enumeration value="Service"/>
      <xs:enumeration value="Service_High"/>
      <xs:enumeration value="Service_Low"/>
      <xs:enumeration value="Preview"/>
      <xs:enumeration value="Other"/>
    </xs:restriction>
  </xs:simpleType>
</xs:element>
```

[top]

Element mediaDataType / otherUse

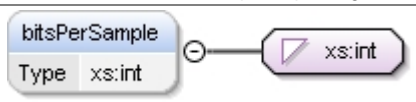
Namespace	http://www.loc.gov/videoMD/
Definition	Denotes a use not contained in the allowed values set if Other is indicated in the use element.
Diagram	
Type	**xs:string**
Properties	Content: **simple** MinOccurs: **0** MaxOccurs: **unbounded**
Source	


```
<xs:element name="otherUse" minOccurs="0" maxOccurs="unbounded" type="xs:string">
  <xs:annotation>
    <xs:documentation>Denotes a use not contained in the allowed values set if Other is indicated in the use
element.</xs:documentation>
  </xs:annotation>
</xs:element>
```

[top]

Element fileDataType / bitsPerSample

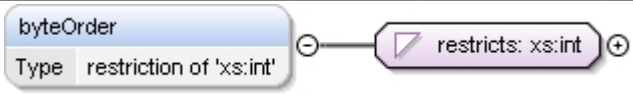
Namespace	http://www.loc.gov/videoMD/

Definition	The number of bits of sample depth, e.g., 8, 24, etc.
Diagram	
Type	**xs:int**
Properties	Content: **simple** MinOccurs: **0** MaxOccurs: **unbounded**

Source	`<xs:element name="bitsPerSample" type="xs:int" minOccurs="0" maxOccurs="unbounded">`
	`  <xs:annotation>`
	`  <xs:documentation>The number of bits of sample depth, e.g., 8, 24, etc.</xs:documentation>`
	`  </xs:annotation>`
	`</xs:element>`

[top]

Element fileDataType / byteOrder

Namespace	http://www.loc.gov/videoMD/
Definition	Order of bit significance in a byte from left to right i.e. 0-least-to-most, 1-most-to-least, 2-mixed-endianess.
Diagram	
Type	restriction of **xs:int**
Properties	Content: **simple** MinOccurs: **0** MaxOccurs: **unbounded**
Facets	Enumeration **0** Enumeration **1** Enumeration **2**

Source	`<xs:element name="byteOrder" minOccurs="0" maxOccurs="unbounded">`
	`  <xs:annotation>`
	`  <xs:documentation>Order of bit significance in a byte from left to right i.e. 0-least-to-most, 1-most-to-least, 2-mixed-endianess.</xs:documentation>`
	`  </xs:annotation>`
	`  <xs:simpleType>`
	`  <xs:restriction base="xs:int">`
	`  <xs:enumeration value="0"/>`
	`  <xs:enumeration value="1"/>`
	`  <xs:enumeration value="2"/>`
	`  </xs:restriction>`
	`  </xs:simpleType>`
	`</xs:element>`

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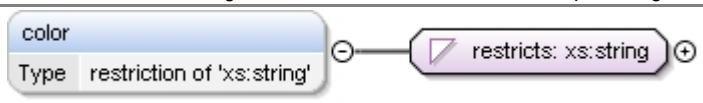
Element fileDataType / color

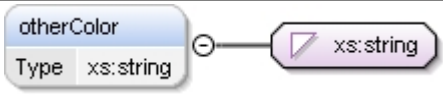
Namespace	http://www.loc.gov/videoMD/
Definition	Presented color of the digital video file. Use Other if none of the preceding values pertains and clarify the color in the otherColor element
Diagram	
Type	restriction of **xs:string**
Properties	Content: **simple** MinOccurs: **0**
Facets	Enumeration **B&W** Enumeration **Color** Enumeration **Grayscale** Enumeration **B&W with grayscale sequences** Enumeration **B&W with color sequences** Enumeration **Grayscale with B&W sequences** Enumeration **Grayscale with color sequences** Enumeration **Color with B&W sequences** Enumeration **Color with grayscale sequences** Enumeration **Other**

Source

```
<xs:element name="color" minOccurs="0">
  <xs:annotation>
    <xs:documentation>Presented color of the digital video file. Use Other if none of the preceding values pertains and clarify the color in the otherColor element</xs:documentation>
  </xs:annotation>
  <xs:simpleType>
    <xs:restriction base="xs:string">
      <xs:enumeration value="B&W"/>
      <xs:enumeration value="Color"/>
      <xs:enumeration value="Grayscale"/>
      <xs:enumeration value="B&W with grayscale sequences"/>
      <xs:enumeration value="B&W with color sequences"/>
      <xs:enumeration value="Grayscale with B&W sequences"/>
      <xs:enumeration value="Grayscale with color sequences"/>
      <xs:enumeration value="Color with B&W sequences"/>
      <xs:enumeration value="Color with grayscale sequences"/>
      <xs:enumeration value="Other"/>
    </xs:restriction>
  </xs:simpleType>
</xs:element>
```

[top]

Element fileDataType / otherColor

Namespace	http://www.loc.gov/videoMD/
Definition	Denotes a use not contained in the allowed values set if Other is indicated in the color element.
Diagram	
Type	**xs:string**
Properties	Content: **simple** MinOccurs: **0** MaxOccurs: **1**
Source	


```
<xs:element name="otherColor" type="xs:string" minOccurs="0" maxOccurs="1">
  <xs:annotation>
    <xs:documentation>Denotes a use not contained in the allowed values set if Other is indicated in the color element.</xs:documentation>
  </xs:annotation>
</xs:element>
```

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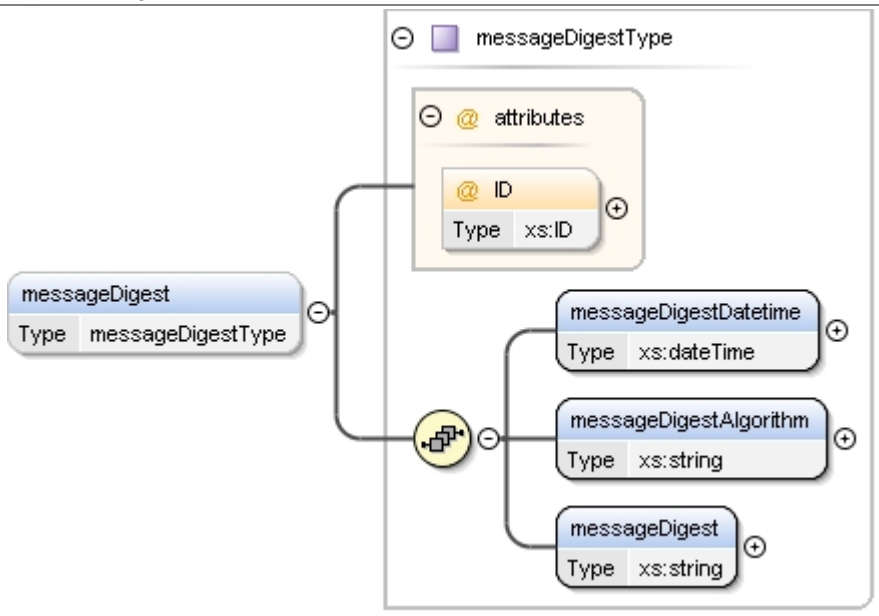
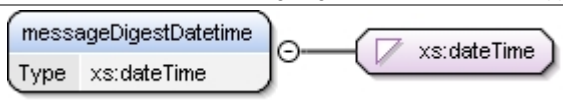
Element fileDataType / messageDigest

Namespace	http://www.loc.gov/videoMD/
Diagram	
Type	**messageDigestType**
Properties	Content: **complex** MinOccurs: **0** MaxOccurs: **unbounded**

Model	**messageDigestDatetime** , **messageDigestAlgorithm** , **messageDigest**
Children	**messageDigest**, **messageDigestAlgorithm**, **messageDigestDatetime**
Instance	<messageDigest ID=""> <messageDigestDatetime>{1,1}</messageDigestDatetime> <messageDigestAlgorithm>{1,1}</messageDigestAlgorithm> <messageDigest>{1,1}</messageDigest> </messageDigest>
Attributes	QName: ID; Type: **xs:ID**; Use: optional
Source	<xs:element name="messageDigest" type="messageDigestType" minOccurs="0" maxOccurs="unbounded"/>

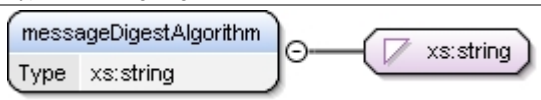
[top]

Element messageDigestType / messageDigestDatetime

Namespace	http://www.loc.gov/videoMD/
Definition	The datetime when the messageDigest was calculated and applied
Diagram	
Type	**xs:dateTime**
Properties	Content: **simple**
Source	<xs:element name="messageDigestDatetime" type="xs:dateTime"> <xs:annotation> <xs:documentation>The datetime when the messageDigest was calculated and applied</xs:documentation> </xs:annotation> </xs:element>

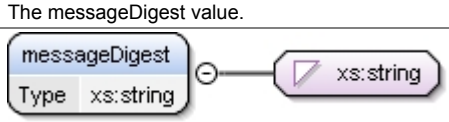
[top]

Element messageDigestType / messageDigestAlgorithm

Namespace	http://www.loc.gov/videoMD/
Definition	Type of messageDigest used.
Diagram	
Type	**xs:string**
Properties	Content: **simple**
Source	<xs:element name="messageDigestAlgorithm" type="xs:string"> <xs:annotation> <xs:documentation>Type of messageDigest used.</xs:documentation> </xs:annotation> </xs:element>

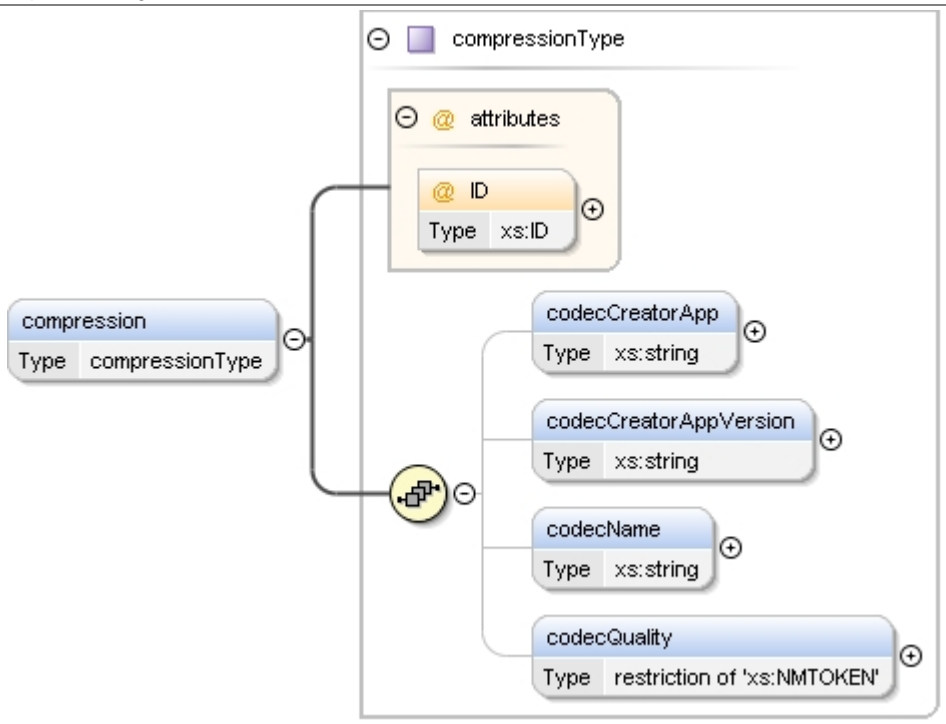
[top]

Element messageDigestType / messageDigest

Namespace	http://www.loc.gov/videoMD/
Definition	The messageDigest value.
Diagram	
Type	**xs:string**
Properties	Content: **simple**
Source	<xs:element name="messageDigest" type="xs:string"> <xs:annotation> <xs:documentation>The messageDigest value.</xs:documentation> </xs:annotation> </xs:element>

[top]

Element fileDataType / compression

Namespace	http://www.loc.gov/videoMD/
Diagram	
Type	**compressionType**
Properties	Content: **complex** MinOccurs: **0** MaxOccurs: **unbounded**
Model	**codecCreatorApp{0,1}** , **codecCreatorAppVersion{0,1}** , **codecName{0,1}** , **codecQuality{0,1}**
Children	**codecCreatorApp**, **codecCreatorAppVersion**, **codecName**, **codecQuality**

Instance	`<compression ID="">`
	`<codecCreatorApp>{0,1}</codecCreatorApp>`
	`<codecCreatorAppVersion>{0,1}</codecCreatorAppVersion>`
	`<codecName>{0,1}</codecName>`
	`<codecQuality>{0,1}</codecQuality>`
	`</compression>`

Attributes

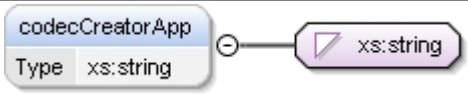
QName	Type	Fixed	Default	Use	Annotation
ID	**xs:ID**			optional	

Source


```
<xs:element name="compression" type="compressionType" minOccurs="0" maxOccurs="unbounded"/>
```


[top]

Element compressionType / codecCreatorApp

Namespace	http://www.loc.gov/videoMD/
Definition	Name of the creator of the compression application e.g. Adobe Premiere, etc..
Diagram	
Type	**xs:string**
Properties	Content: **simple** MinOccurs: **0**

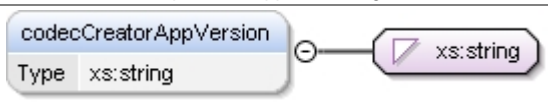
Source


```
<xs:element name="codecCreatorApp" type="xs:string" minOccurs="0">
  <xs:annotation>
    <xs:documentation>Name of the creator of the compression application e.g. Adobe Premiere, etc..
</xs:documentation>
  </xs:annotation>
</xs:element>
```


[top]

Element compressionType / codecCreatorAppVersion

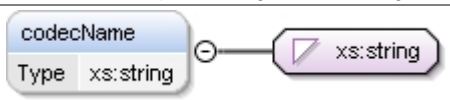
Namespace	http://www.loc.gov/videoMD/

Definition	Version of the compression application e.g. 6.0, etc..
Diagram	
Type	**xs:string**
Properties	Content: **simple** MinOccurs: **0**

Source	`<xs:element name="codecCreatorAppVersion" type="xs:string" minOccurs="0">`
	`  <xs:annotation>`
	`  <xs:documentation>Version of the compression application e.g. 6.0, etc..</xs:documentation>`
	`  </xs:annotation>`
	`</xs:element>`

[top]

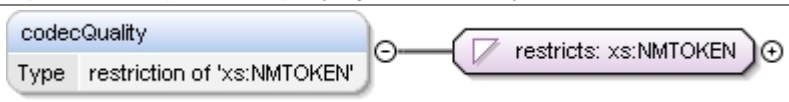
Element compressionType / codecName

Namespace	http://www.loc.gov/videoMD/
Definition	Name of the compression algorithm used e.g. MPEG, etc..
Diagram	
Type	**xs:string**
Properties	Content: **simple** MinOccurs: **0**

Source	`<xs:element name="codecName" type="xs:string" minOccurs="0">`
	`  <xs:annotation>`
	`  <xs:documentation>Name of the compression algorithm used e.g. MPEG, etc..</xs:documentation>`
	`  </xs:annotation>`
	`</xs:element>`

[top]

Element compressionType / codecQuality

Namespace	http://www.loc.gov/videoMD/
Definition	Impact of the compression on quality e.g. lossless or lossy.
Diagram	
Type	restriction of **xs:NMTOKEN**
Properties	Content: **simple** MinOccurs: **0**
Facets	Enumeration **lossless** Enumeration **lossy**

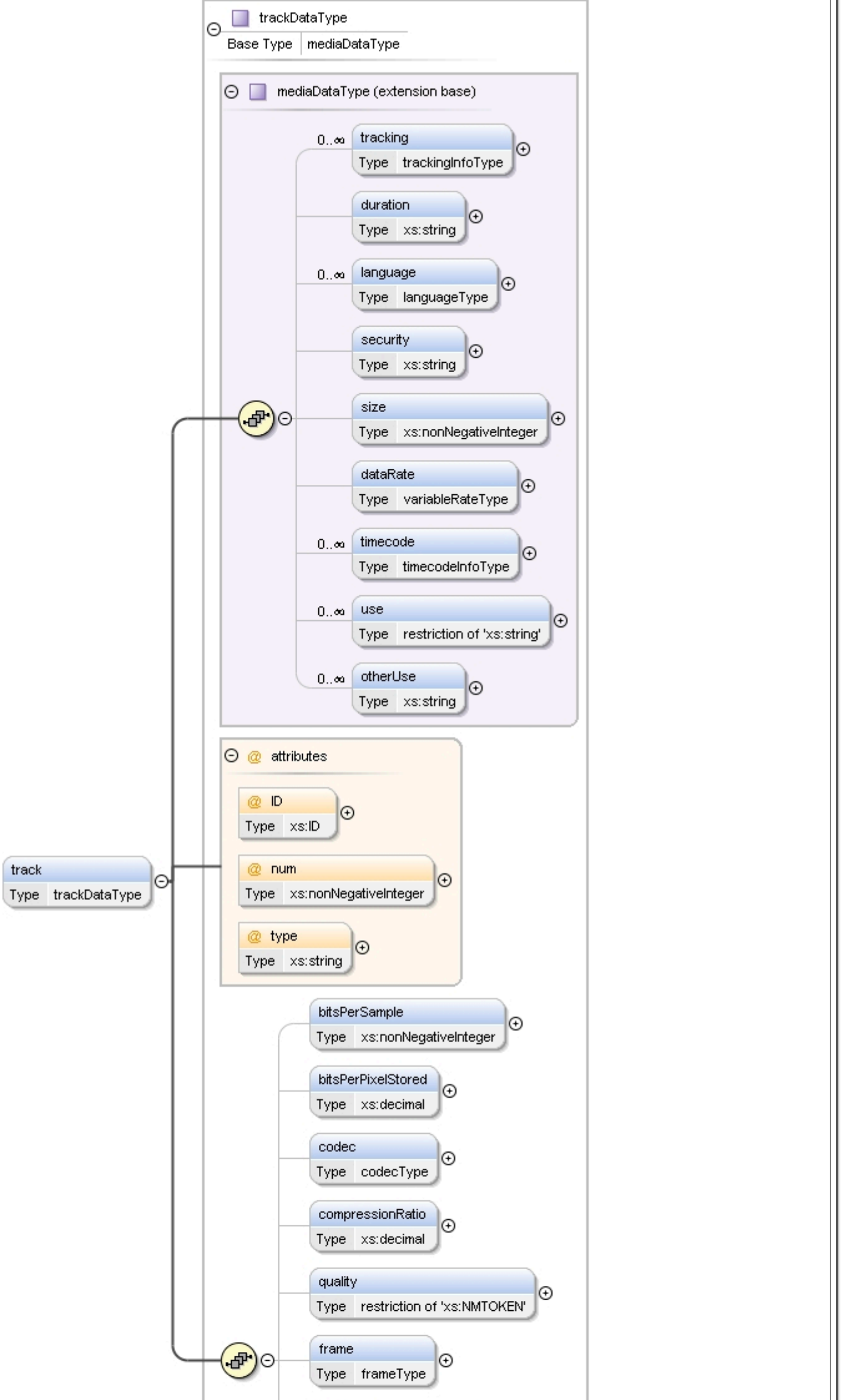
Source	`<xs:element name="codecQuality" minOccurs="0">`
	`  <xs:annotation>`
	`  <xs:documentation>Impact of the compression on quality e.g. lossless or lossy.</xs:documentation>`
	`  </xs:annotation>`
	`  <xs:simpleType>`
	`  <xs:restriction base="xs:NMTOKEN">`
	`  <xs:enumeration value="lossless"/>`
	`  <xs:enumeration value="lossy"/>`
	`  </xs:restriction>`
	`  </xs:simpleType>`
	`</xs:element>`

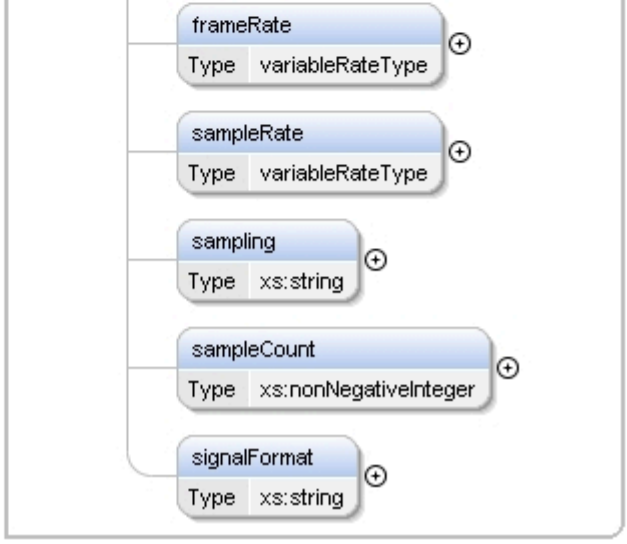
[top]

Element fileDataType / track

Namespace	http://www.loc.gov/videoMD/

Diagram	


trackDataType
Base Type
mediaDataType
mediaDataType (extension base)
0..∞
tracking
Type
trackingInfoType
duration
Type
xs:string
0..∞
language
Type
languageType
security
Type
xs:string
size
Type
xs:nonNegativeInteger
dataRate
Type
variableRateType
0..∞
timecode
Type
timecodeInfoType
0..∞
use
Type
restriction of 'xs:string'
0..∞
otherUse
Type
xs:string
attributes
ID
Type
xs:ID
num
Type
xs:nonNegativeInteger
type
Type
xs:string
track
Type
trackDataType
bitsPerSample
Type
xs:nonNegativeInteger
bitsPerPixelStored
Type
xs:decimal
codec
Type
codecType
compressionRatio
Type
xs:decimal
quality
Type
restriction of 'xs:NMTOKEN'
frame
Type
frameType



Type	**trackDataType**
Type hierarchy	**mediaDataType** ↳ **trackDataType**
Properties	Content: **complex** MinOccurs: **0** MaxOccurs: **unbounded**
Model	**tracking*** , **duration{0,1}** , **language*** , **security{0,1}** , **size{0,1}** , **dataRate{0,1}** , **timecode*** , **use*** , **otherUse*** , **bitsPerSample{0,1}** , **bitsPerPixelStored{0,1}** , **codec{0,1}** , **compressionRatio{0,1}** , **quality{0,1}** , **frame{0,1}** , **frameRate{0,1}** , **sampleRate{0,1}** , **sampling{0,1}** , **sampleCount{0,1}** , **signalFormat{0,1}**
Children	**bitsPerPixelStored**, **bitsPerSample**, **codec**, **compressionRatio**, **dataRate**, **duration**, **frame**, **frameRate**, **language**, **otherUse**, **quality**, **sampleCount**, **sampleRate**, **sampling**, **security**, **signalFormat**, **size**, **timecode**, **tracking**, **use**

Instance

```
<track ID="" num="" type="">
  <tracking ID="">{0,unbounded}</tracking>
  <duration>{0,1}</duration>
  <language>{0,unbounded}</language>
  <security>{0,1}</security>
  <size>{0,1}</size>
  <dataRate maximum="" minimum="" mode="" nominal="" unit="">{0,1}</dataRate>
  <timecode ID="">{0,unbounded}</timecode>
  <use>{0,unbounded}</use>
  <otherUse>{0,unbounded}</otherUse>
</track>
```

Attributes

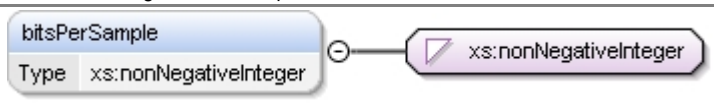
QName	Type	Fixed	Default	Use	Annotation
ID	**xs:ID**			optional	
num	**xs:nonNegativeInteger**			optional	
type	**xs:string**			optional	

Source

```
<xs:element name="track" type="trackDataType" minOccurs="0" maxOccurs="unbounded"/>
```

[top]

Element trackDataType / bitsPerSample

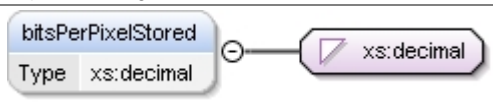
Namespace	http://www.loc.gov/videoMD/
Definition	The size of a digital video sample in bits.
Diagram	
Type	**xs:nonNegativeInteger**
Properties	Content: **simple** MinOccurs: **0**

Source

```
<xs:element name="bitsPerSample" type="xs:nonNegativeInteger" minOccurs="0">
  <xs:annotation>
    <xs:documentation>The size of a digital video sample in bits.</xs:documentation>
  </xs:annotation>
</xs:element>
```

[top]

Element trackDataType / bitsPerPixelStored

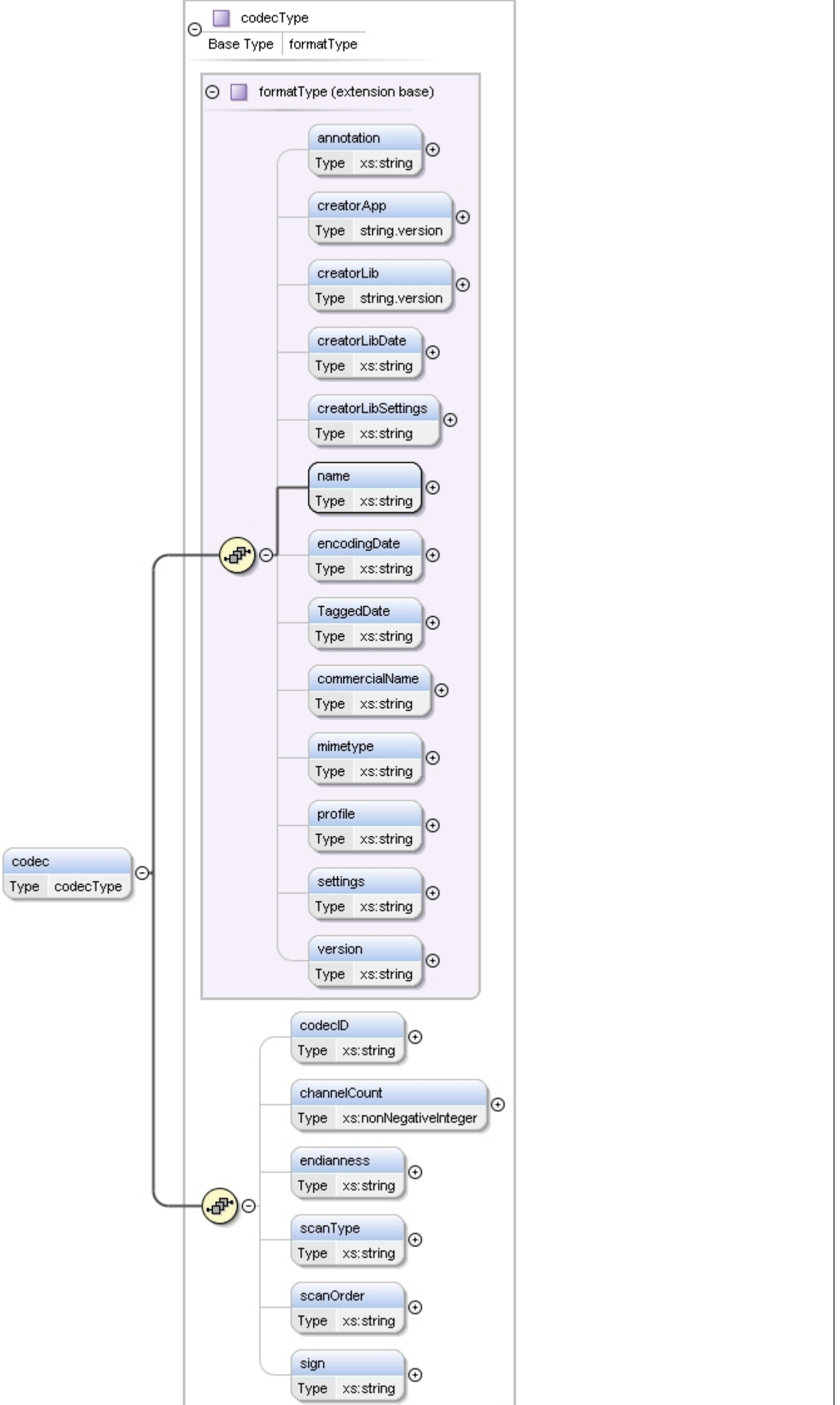
Namespace	http://www.loc.gov/videoMD/
Diagram	
Type	**xs:decimal**
Properties	Content: **simple** MinOccurs: **0**
Source	`<xs:element name="bitsPerPixelStored" type="xs:decimal" minOccurs="0"/>`

[top]

Element trackDataType / codec

Namespace	http://www.loc.gov/videoMD/

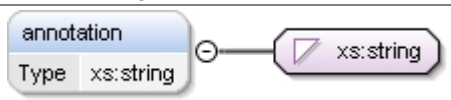
Diagram	


codecType
Base Type
formatType
formatType (extension base)
annotation
Type
xs:string
creatorApp
Type
string.version
creatorLib
Type
string.version
creatorLibDate
Type
xs:string
creatorLibSettings
Type
xs:string
name
Type
xs:string
encodingDate
Type
xs:string
TaggedDate
Type
xs:string
commercialName
Type
xs:string
mimetype
Type
xs:string
profile
Type
xs:string
settings
Type
xs:string
version
Type
xs:string
codec
Type
codecType
codecID
Type
xs:string
channelCount
Type
xs:nonNegativeInteger
endianness
Type
xs:string
scanType
Type
xs:string
scanOrder
Type
xs:string
sign
Type
xs:string

Type	**codecType**
Type hierarchy	**formatType** ↑ **codecType**
Properties	Content: **complex** MinOccurs: **0**
Model	**annotation{0,1}** , **creatorApp{0,1}** , **creatorLib{0,1}** , **creatorLibDate{0,1}** , **creatorLibSettings{0,1}** , **name** , **encodingDate{0,1}** , **TaggedDate{0,1}** , **commercialName{0,1}** , **mimetype{0,1}** , **profile{0,1}** , **settings{0,1}** , **version{0,1}** , **codecID{0,1}** , **channelCount{0,1}** , **endianness{0,1}** , **scanType{0,1}** , **scanOrder{0,1}** , **sign{0,1}**
Children	**TaggedDate**, **annotation**, **channelCount**, **codecID**, **commercialName**, **creatorApp**, **creatorLib**, **creatorLibDate**, **creatorLibSettings**, **encodingDate**, **endianness**, **mimetype**, **name**, **profile**, **scanOrder**, **scanType**, **settings**, **sign**, **version**
Instance	<codec> <annotation>{0,1}</annotation> <creatorApp version="">{0,1}</creatorApp> <creatorLib version="">{0,1}</creatorLib> <creatorLibDate>{0,1}</creatorLibDate> <creatorLibSettings>{0,1}</creatorLibSettings> <name>{1,1}</name> <encodingDate>{0,1}</encodingDate> <TaggedDate>{0,1}</TaggedDate> <commercialName>{0,1}</commercialName> <mimetype>{0,1}</mimetype> <profile>{0,1}</profile> <settings>{0,1}</settings> <version>{0,1}</version> </codec>
Source	<xs:element name="codec" type="codecType" minOccurs="0"/>

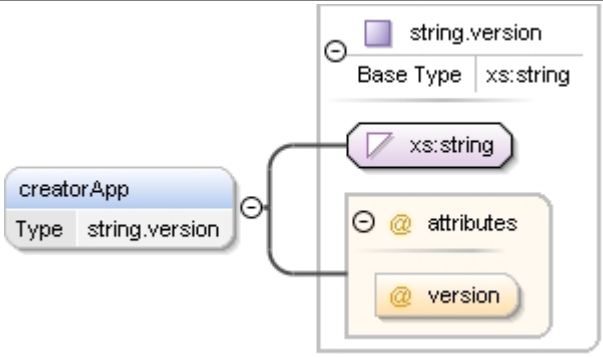
[top]

Element formatType / annotation

Namespace	http://www.loc.gov/videoMD/
Diagram	
Type	**xs:string**
Properties	Content: **simple** MinOccurs: **0**
Source	<xs:element name="annotation" type="xs:string" minOccurs="0"/>

[top]

Element formatType / creatorApp

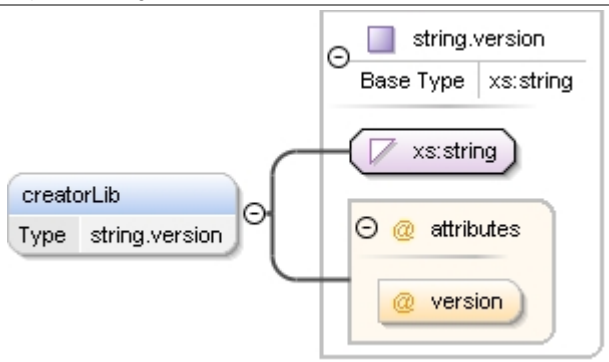
Namespace	http://www.loc.gov/videoMD/
Diagram	
Type	**string.version**
Properties	Content: **complex** MinOccurs: **0**

Attributes	QName	Type	Fixed	Default	Use	Annotation
	version				optional	

Source	<xs:element name="creatorApp" type="string.version" minOccurs="0"/>

[top]

Element formatType / creatorLib

Namespace	http://www.loc.gov/videoMD/
Diagram	
Type	**string.version**
Properties	Content: **complex** MinOccurs: **0**

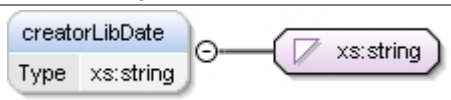
Attributes	QName	Type	Fixed	Default	Use	Annotation
	version				optional	

Source

```
<xs:element name="creatorLib" type="string.version" minOccurs="0"/>
```

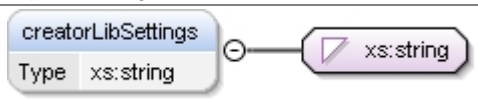
[top]

Element formatType / creatorLibDate

Namespace	http://www.loc.gov/videoMD/
Diagram	
Type	**xs:string**
Properties	Content: **simple** MinOccurs: **0**
Source	`<xs:element name="creatorLibDate" type="xs:string" minOccurs="0"/>`

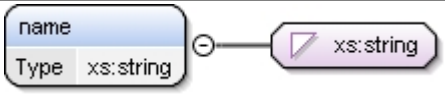
[top]

Element formatType / creatorLibSettings

Namespace	http://www.loc.gov/videoMD/
Diagram	
Type	**xs:string**
Properties	Content: **simple** MinOccurs: **0**
Source	`<xs:element name="creatorLibSettings" type="xs:string" minOccurs="0"/>`

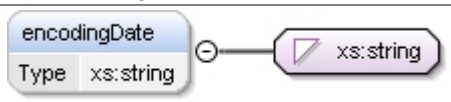
[top]

Element formatType / name

Namespace	http://www.loc.gov/videoMD/
Diagram	
Type	**xs:string**
Properties	Content: **simple**
Source	`<xs:element name="name" type="xs:string"/>`

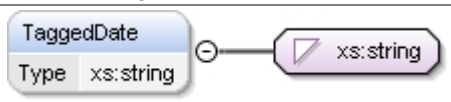
[top]

Element formatType / encodingDate

Namespace	http://www.loc.gov/videoMD/
Diagram	
Type	**xs:string**
Properties	Content: **simple** MinOccurs: **0**
Source	`<xs:element name="encodingDate" type="xs:string" minOccurs="0"/>`

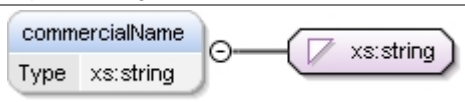
[top]

Element formatType / TaggedDate

Namespace	http://www.loc.gov/videoMD/
Diagram	
Type	**xs:string**
Properties	Content: **simple** MinOccurs: **0**
Source	`<xs:element name="TaggedDate" type="xs:string" minOccurs="0"/>`

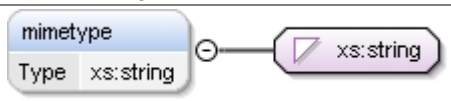
[top]

Element formatType / commercialName

Namespace	http://www.loc.gov/videoMD/
Diagram	
Type	**xs:string**
Properties	Content: **simple** MinOccurs: **0**
Source	`<xs:element name="commercialName" type="xs:string" minOccurs="0"/>`

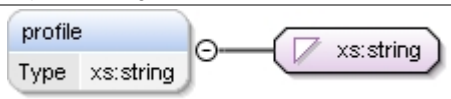
[top]

Element formatType / mimetype

Namespace	http://www.loc.gov/videoMD/
Diagram	
Type	**xs:string**
Properties	Content: **simple** MinOccurs: **0**
Source	`<xs:element name="mimetype" type="xs:string" minOccurs="0"/>`

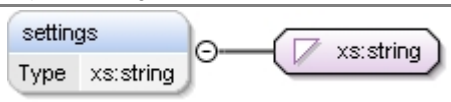
[top]

Element formatType / profile

Namespace	http://www.loc.gov/videoMD/
Diagram	
Type	**xs:string**
Properties	Content: **simple** MinOccurs: **0**
Source	`<xs:element name="profile" type="xs:string" minOccurs="0"/>`

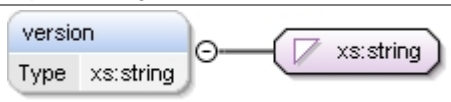
[top]

Element formatType / settings

Namespace	http://www.loc.gov/videoMD/
Diagram	
Type	**xs:string**
Properties	Content: **simple** MinOccurs: **0**
Source	`<xs:element name="settings" type="xs:string" minOccurs="0"/>`

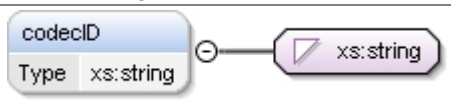
[top]

Element formatType / version

Namespace	http://www.loc.gov/videoMD/
Diagram	
Type	**xs:string**
Properties	Content: **simple** MinOccurs: **0**
Source	`<xs:element name="version" type="xs:string" minOccurs="0"/>`

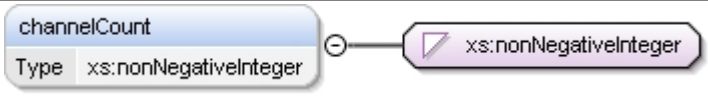
[top]

Element codecType / codecID

Namespace	http://www.loc.gov/videoMD/
Diagram	
Type	**xs:string**
Properties	Content: **simple** MinOccurs: **0**
Source	`<xs:element name="codecID" type="xs:string" minOccurs="0"/>`

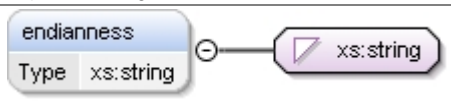
[top]

Element codecType / channelCount

Namespace	http://www.loc.gov/videoMD/
Diagram	
Type	**xs:nonNegativeInteger**
Properties	Content: **simple** MinOccurs: **0**
Source	`<xs:element name="channelCount" type="xs:nonNegativeInteger" minOccurs="0"/>`

[top]

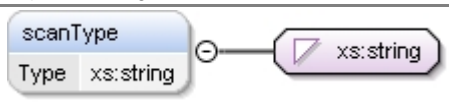
Element codecType / endianness

Namespace	http://www.loc.gov/videoMD/
Diagram	
Type	**xs:string**

Properties	Content: **simple** MinOccurs: **0**
Source	`<xs:element name="endianness" type="xs:string" minOccurs="0"/>`

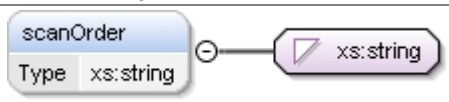
[top]

Element codecType / scanType

Namespace	http://www.loc.gov/videoMD/
Diagram	
Type	**xs:string**
Properties	Content: **simple** MinOccurs: **0**
Source	`<xs:element name="scanType" type="xs:string" minOccurs="0"/>`

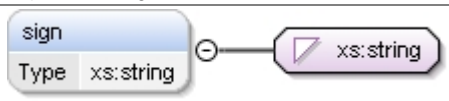
[top]

Element codecType / scanOrder

Namespace	http://www.loc.gov/videoMD/
Diagram	
Type	**xs:string**
Properties	Content: **simple** MinOccurs: **0**
Source	`<xs:element name="scanOrder" type="xs:string" minOccurs="0"/>`

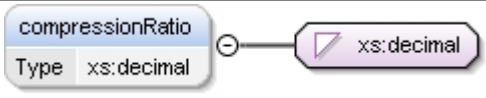
[top]

Element codecType / sign

Namespace	http://www.loc.gov/videoMD/
Diagram	
Type	**xs:string**
Properties	Content: **simple** MinOccurs: **0**
Source	`<xs:element name="sign" type="xs:string" minOccurs="0"/>`

[top]

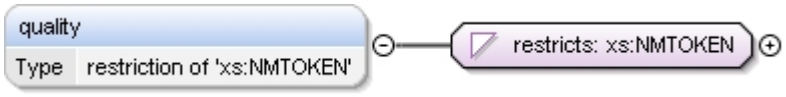
Element trackDataType / compressionRatio

Namespace	http://www.loc.gov/videoMD/
Diagram	
Type	**xs:decimal**
Properties	Content: **simple** MinOccurs: **0**
Source	`<xs:element name="compressionRatio" type="xs:decimal" minOccurs="0"/>`

[top]

Element trackDataType / quality

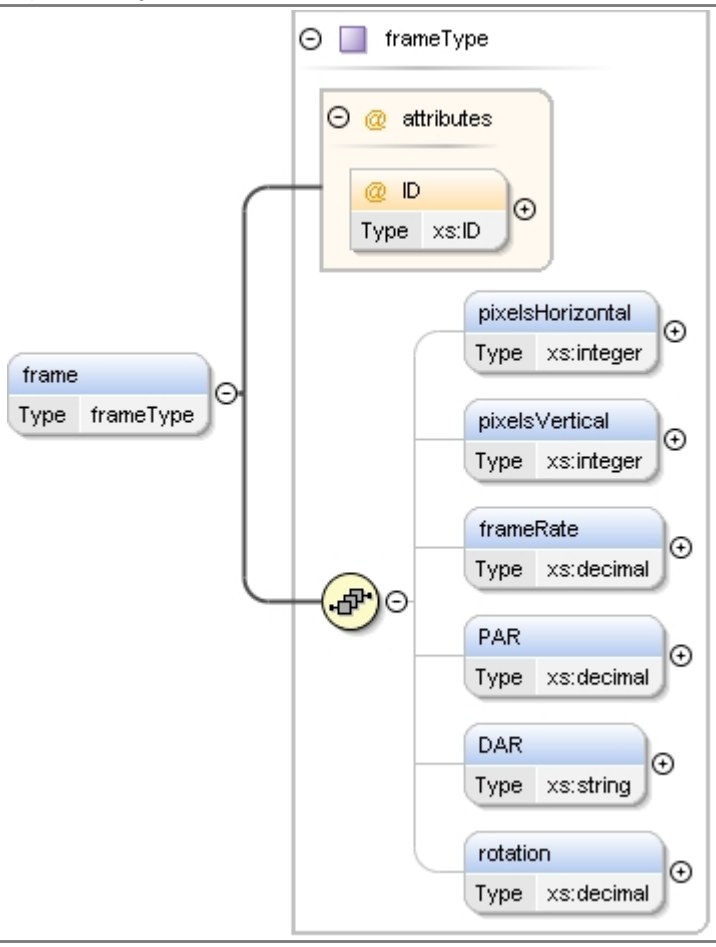
Namespace	http://www.loc.gov/videoMD/

Diagram	
Type	restriction of **xs:NMTOKEN**
Properties	Content: **simple** MinOccurs: **0**
Facets	Enumeration **lossless** Enumeration **lossy** Enumeration **lossy_lossless**

Source	`<xs:element name="quality" minOccurs="0">`
	`<xs:simpleType>`
	`<xs:restriction base="xs:NMTOKEN">`
	`<xs:enumeration value="lossless"/>`
	`<xs:enumeration value="lossy"/>`
	`<xs:enumeration value="lossy_lossless"/>`
	`</xs:restriction>`
	`</xs:simpleType>`
	`</xs:element>`

[top]

Element trackDataType / frame

Namespace	http://www.loc.gov/videoMD/
Diagram	
Type	**frameType**
Properties	Content: **complex** MinOccurs: **0**
Model	**pixelsHorizontal{0,1}** , **pixelsVertical{0,1}** , **frameRate{0,1}** , **PAR{0,1}** , **DAR{0,1}** , **rotation{0,1}**
Children	**DAR**, **PAR**, **frameRate**, **pixelsHorizontal**, **pixelsVertical**, **rotation**

Instance	`<frame ID="">`
	`<pixelsHorizontal>{0,1}</pixelsHorizontal>`
	`<pixelsVertical>{0,1}</pixelsVertical>`
	`<frameRate>{0,1}</frameRate>`
	`<PAR>{0,1}</PAR>`
	`<DAR>{0,1}</DAR>`
	`<rotation>{0,1}</rotation>`
	`</frame>`

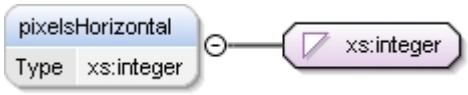
Attributes	QName	Type	Fixed	Default	Use	Annotation
	ID	**xs:ID**			optional	

Source

```
<xs:element name="frame" type="frameType" minOccurs="0"/>
```

[top]

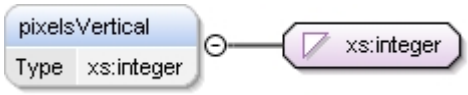
Element frameType / pixelsHorizontal

Namespace	http://www.loc.gov/videoMD/
Definition	The horizontal dimension of a frame in pixels.
Diagram	
Type	**xs:integer**
Properties	Content: **simple** MinOccurs: **0**
Source	

```
<xs:element name="pixelsHorizontal" type="xs:integer" minOccurs="0">
  <xs:annotation>
    <xs:documentation>The horizontal dimension of a frame in pixels.</xs:documentation>
  </xs:annotation>
</xs:element>
```

[top]

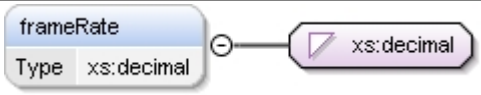
Element frameType / pixelsVertical

Namespace	http://www.loc.gov/videoMD/
Definition	The vertical dimension of a frame in pixels.
Diagram	
Type	**xs:integer**
Properties	Content: **simple** MinOccurs: **0**
Source	

```
<xs:element name="pixelsVertical" type="xs:integer" minOccurs="0">
  <xs:annotation>
    <xs:documentation>The vertical dimension of a frame in pixels.</xs:documentation>
  </xs:annotation>
</xs:element>
```

[top]

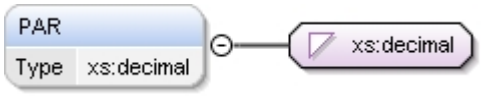
Element frameType / frameRate

Namespace	http://www.loc.gov/videoMD/
Definition	The rate of frames displayed in one second (or average rate of frames per second in the case of variable frame-rate). Present as a ratio of time base over frame duration, such as 30000/1001 or as a decimal, such as 29.970 .
Diagram	
Type	**xs:decimal**
Properties	Content: **simple** MinOccurs: **0**
Source	

```
<xs:element name="frameRate" type="xs:decimal" minOccurs="0">
  <xs:annotation>
    <xs:documentation>The rate of frames displayed in one second (or average rate of frames per second in the
case of variable frame-rate). Present as a ratio of time base over frame duration, such as 30000/1001 or as a
decimal, such as 29.970 .</xs:documentation>
  </xs:annotation>
</xs:element>
```

[top]

Element frameType / PAR

Namespace	http://www.loc.gov/videoMD/
Definition	Pixel aspect ratio (present as a ratio or decimal).
Diagram	
Type	**xs:decimal**
Properties	Content: **simple** MinOccurs: **0**

Source	`<xs:element name="PAR" type="xs:decimal" minOccurs="0">`
	`  <xs:annotation>`
	`  <xs:documentation>Pixel aspect ratio (present as a ratio or decimal).</xs:documentation>`
	`  </xs:annotation>`
	`</xs:element>`

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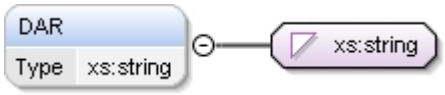
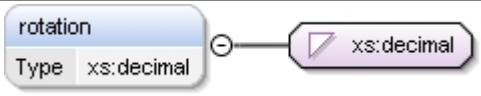
Element frameType / DAR

Namespace	http://www.loc.gov/videoMD/
Definition	Display aspect ratio (present as a ratio or decimal such as 4/3 or 6/9 or 1.33333).
Diagram	
Type	**xs:string**
Properties	Content: **simple** MinOccurs: **0**

Source	`<xs:element name="DAR" type="xs:string" minOccurs="0">`
	`  <xs:annotation>`
	`  <xs:documentation>Display aspect ratio (present as a ratio or decimal such as 4/3 or 6/9 or 1.33333).`
	`</xs:documentation>`
	`  </xs:annotation>`
	`</xs:element>`

[top]

Element frameType / rotation

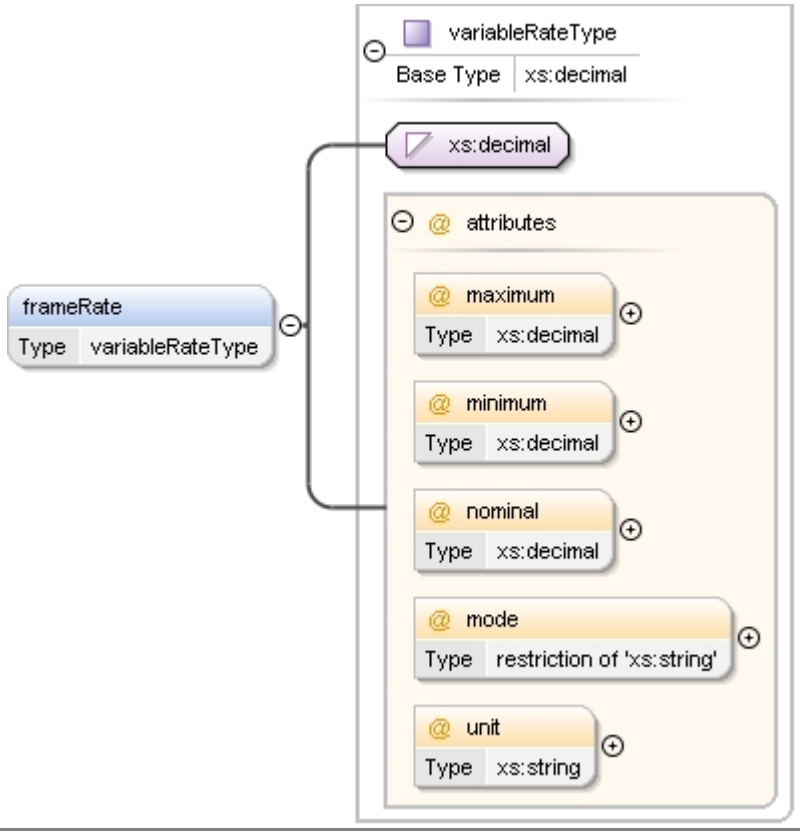
Namespace	http://www.loc.gov/videoMD/
Definition	The rotation in a decimal value.
Diagram	
Type	**xs:decimal**
Properties	Content: **simple** MinOccurs: **0**

Source	`<xs:element name="rotation" type="xs:decimal" minOccurs="0">`
	`  <xs:annotation>`
	`  <xs:documentation>The rotation in a decimal value.</xs:documentation>`
	`  </xs:annotation>`
	`</xs:element>`

[top]

Element trackDataType / frameRate

Namespace	http://www.loc.gov/videoMD/

Diagram	
Type	**variableRateType**
Properties	Content: **complex** MinOccurs: **0**

Attributes

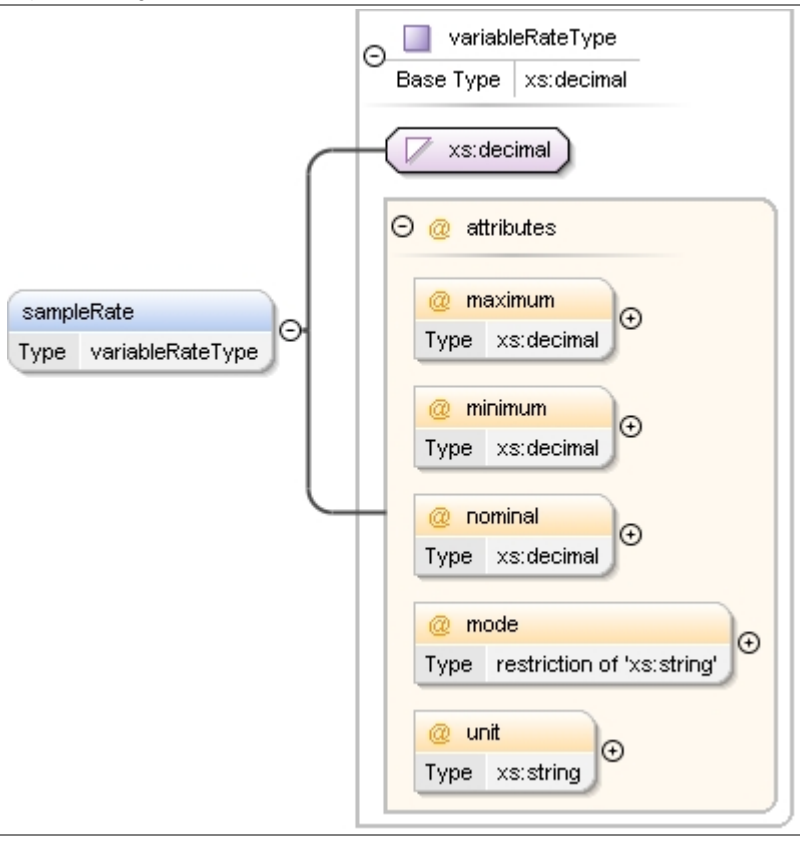
QName	Type	Fixed	Default	Use	Annotation
maximum	**xs:decimal**			optional	
minimum	**xs:decimal**			optional	
mode	restriction of **xs:string**			optional	Indicator that the rate of the video is fixed or variable.
nominal	**xs:decimal**			optional	
unit	**xs:string**			optional	

Source

```
<xs:element name="frameRate" type="variableRateType" minOccurs="0"/>
```

[top]

Element trackDataType / sampleRate

Namespace	http://www.loc.gov/videoMD/
Diagram	

Type	**variableRateType**
Properties	Content: **complex** MinOccurs: **0**

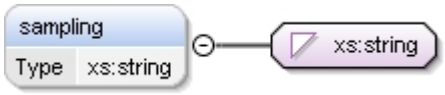
Attributes	QName	Type	Fixed	Default	Use	Annotation
	maximum	**xs:decimal**			optional	
	minimum	**xs:decimal**			optional	
	mode	restriction of **xs:string**			optional	Indicator that the rate of the video is fixed or variable.
	nominal	**xs:decimal**			optional	
	unit	**xs:string**			optional	

Source

```
<xs:element name="sampleRate" type="variableRateType" minOccurs="0"/>
```

[top]

Element trackDataType / sampling

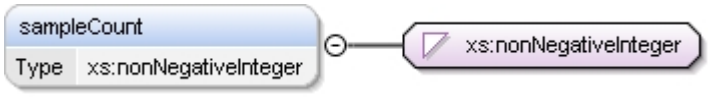
Namespace	http://www.loc.gov/videoMD/
Definition	sThe video sampling format used in a digital video file. (in terms of luminance and chrominance), e.g., 4:2:0, 4:2:2, 2:4:4, etc.)
Diagram	
Type	**xs:string**
Properties	Content: **simple** MinOccurs: **0**

Source

```
<xs:element name="sampling" type="xs:string" minOccurs="0">
  <xs:annotation>
    <xs:documentation>sThe video sampling format used in a digital video
                                                                file. (in terms of luminance and
chrominance), e.g., 4:2:0, 4:2:2,
                                                                2:4:4, etc.)</xs:documentation>
  </xs:annotation>
</xs:element>
```

[top]

Element trackDataType / sampleCount

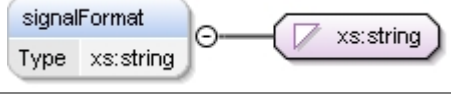
Namespace	http://www.loc.gov/videoMD/
Diagram	
Type	**xs:nonNegativeInteger**
Properties	Content: **simple** MinOccurs: **0**

Source

```
<xs:element name="sampleCount" type="xs:nonNegativeInteger" minOccurs="0"/>
```

[top]

Element trackDataType / signalFormat

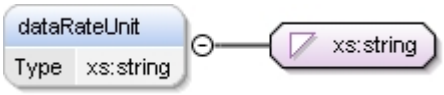
Namespace	http://www.loc.gov/videoMD/
Definition	The signal format of a video source item e.g. NTSC, PAL, SECAM.
Diagram	
Type	**xs:string**
Properties	Content: **simple** MinOccurs: **0**

Source

```
<xs:element name="signalFormat" type="xs:string" minOccurs="0">
  <xs:annotation>
    <xs:documentation>The signal format of a video source item e.g. NTSC, PAL, SECAM.</xs:documentation>
  </xs:annotation>
</xs:element>
```

[top]

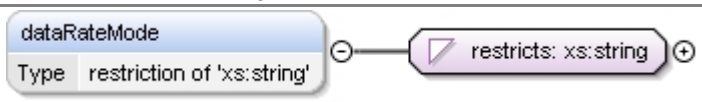
Element fileDataType / dataRateUnit

Namespace	http://www.loc.gov/videoMD/
Definition	Data rate unit of a digital video file.
Diagram	
Type	**xs:string**
Properties	Content: **simple** MinOccurs: **0** MaxOccurs: **unbounded**
Source	

```
<xs:element name="dataRateUnit" type="xs:string" minOccurs="0" maxOccurs="unbounded">
  <xs:annotation>
    <xs:documentation>Data rate unit of a digital video file.</xs:documentation>
  </xs:annotation>
</xs:element>
```

[top]

Element fileDataType / dataRateMode

Namespace	http://www.loc.gov/videoMD/
Definition	Mode of the data rate in a digital video file.
Diagram	
Type	restriction of **xs:string**
Properties	Content: **simple** MinOccurs: **0** MaxOccurs: **unbounded**
Facets	Enumeration **Fixed** Enumeration **Variable**
Source	

```
<xs:element name="dataRateMode" minOccurs="0" maxOccurs="unbounded">
  <xs:annotation>
    <xs:documentation>Mode of the data rate in a digital video file.</xs:documentation>
  </xs:annotation>
  <xs:simpleType>
    <xs:restriction base="xs:string">
      <xs:enumeration value="Fixed"/>
      <xs:enumeration value="Variable"/>
    </xs:restriction>
  </xs:simpleType>
</xs:element>
```

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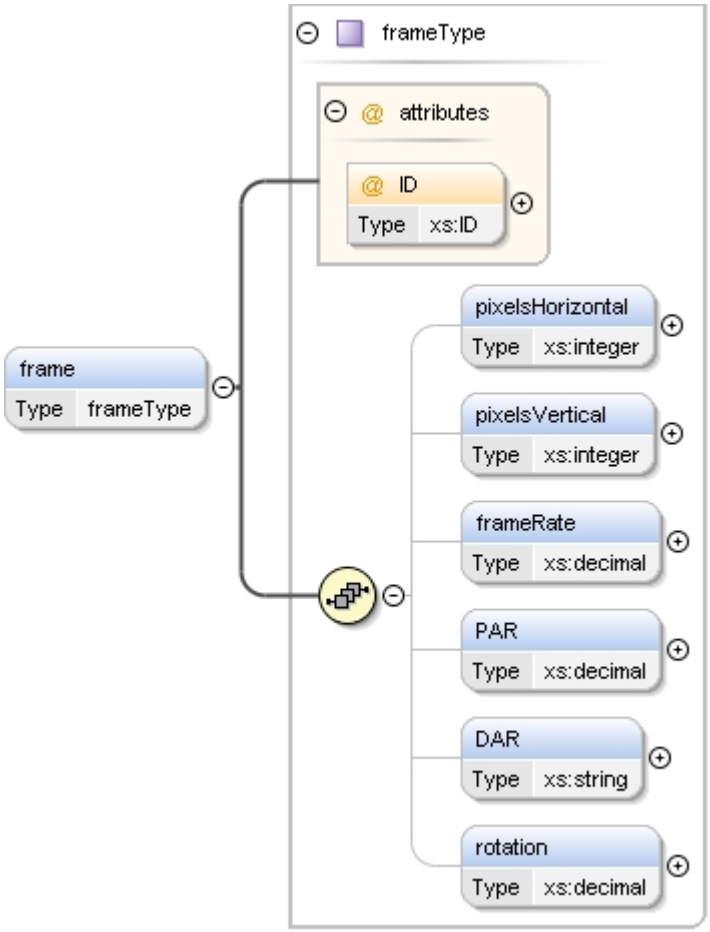
Element fileDataType / frame

Namespace	http://www.loc.gov/videoMD/

Diagram	
Type	**frameType**
Properties	Content: **complex** MinOccurs: **0**
Model	**pixelsHorizontal{0,1}** , **pixelsVertical{0,1}** , **frameRate{0,1}** , **PAR{0,1}** , **DAR{0,1}** , **rotation{0,1}**
Children	**DAR**, **PAR**, **frameRate**, **pixelsHorizontal**, **pixelsVertical**, **rotation**

Instance	`<frame ID="">`
	`<pixelsHorizontal>{0,1}</pixelsHorizontal>`
	`<pixelsVertical>{0,1}</pixelsVertical>`
	`<frameRate>{0,1}</frameRate>`
	`<PAR>{0,1}</PAR>`
	`<DAR>{0,1}</DAR>`
	`<rotation>{0,1}</rotation>`
	`</frame>`

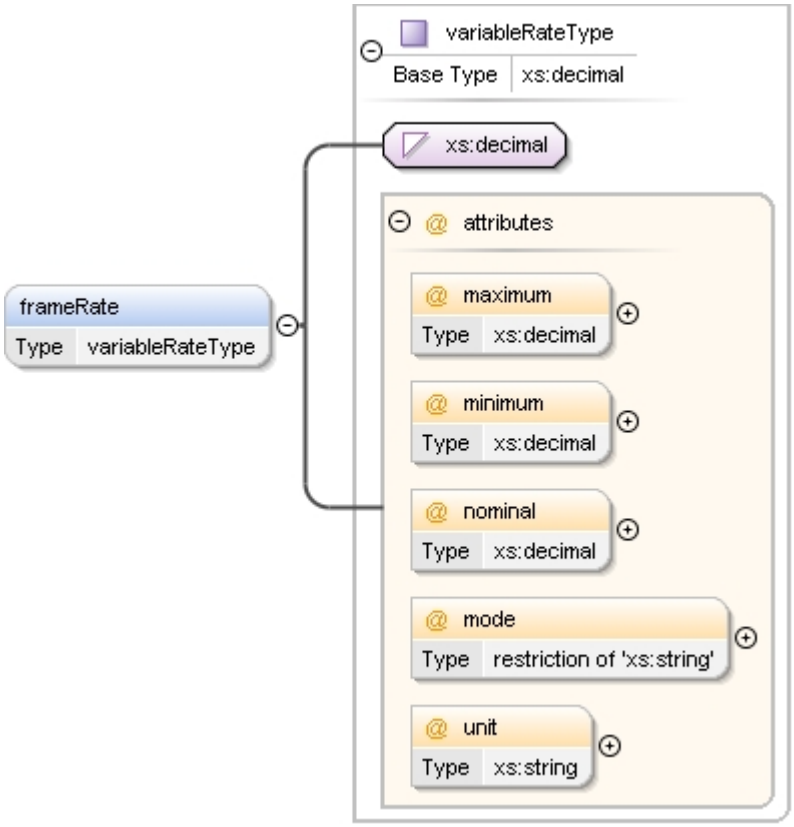
Attributes	QName	Type	Fixed	Default	Use	Annotation
	ID	**xs:ID**			optional	

Source	
	`<xs:element name="frame" type="frameType" minOccurs="0"/>`

[top]

Element fileDataType / frameRate

Namespace	http://www.loc.gov/videoMD/
Definition	The number of frames per second at which the video source item was digitized.

Diagram	
Type	**variableRateType**
Properties	Content: **complex** MinOccurs: **0**

Attributes

QName	Type	Fixed	Default	Use	Annotation
maximum	**xs:decimal**			optional	
minimum	**xs:decimal**			optional	
mode	restriction of **xs:string**			optional	Indicator that the rate of the video is fixed or variable.
nominal	**xs:decimal**			optional	
unit	**xs:string**			optional	

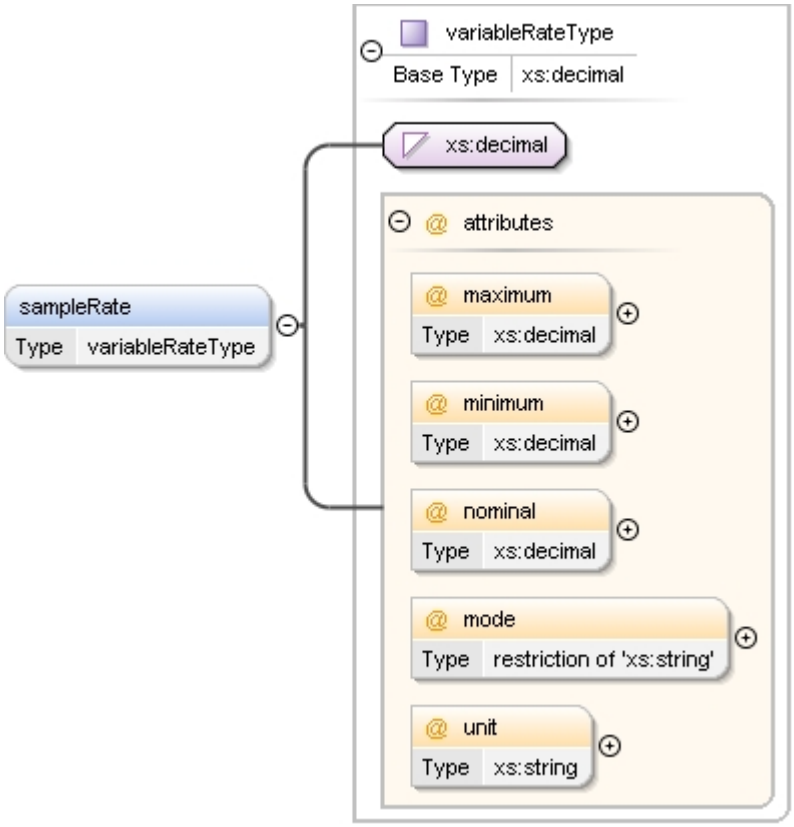
Source

```
<xs:element name="frameRate" type="variableRateType" minOccurs="0">
  <xs:annotation>
    <xs:documentation>The number of frames per second at which the video source item was digitized.
</xs:documentation>
  </xs:annotation>
</xs:element>
```

[top]

Element fileDataType / sampleRate

Namespace	http://www.loc.gov/videoMD/

Diagram	
Type	**variableRateType**
Properties	Content: **complex** MinOccurs: **0**

Attributes

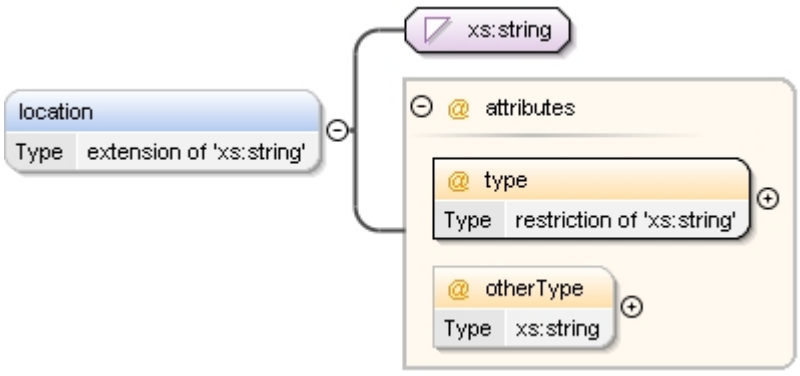
QName	Type	Fixed	Default	Use	Annotation
maximum	**xs:decimal**			optional	
minimum	**xs:decimal**			optional	
mode	restriction of **xs:string**			optional	Indicator that the rate of the video is fixed or variable.
nominal	**xs:decimal**			optional	
unit	**xs:string**			optional	

Source

```
<xs:element name="sampleRate" type="variableRateType" minOccurs="0"/>
```

[top]

Element fileDataType / location

Namespace	http://www.loc.gov/videoMD/
Definition	Location of the referenced file
Diagram	
Type	extension of **xs:string**
Properties	Content: **complex** MinOccurs: **0** MaxOccurs: **unbounded**

Attributes

QName	Type	Fixed	Default	Use	Annotation
otherType	**xs:string**			optional	
type	restriction of **xs:string**			required	

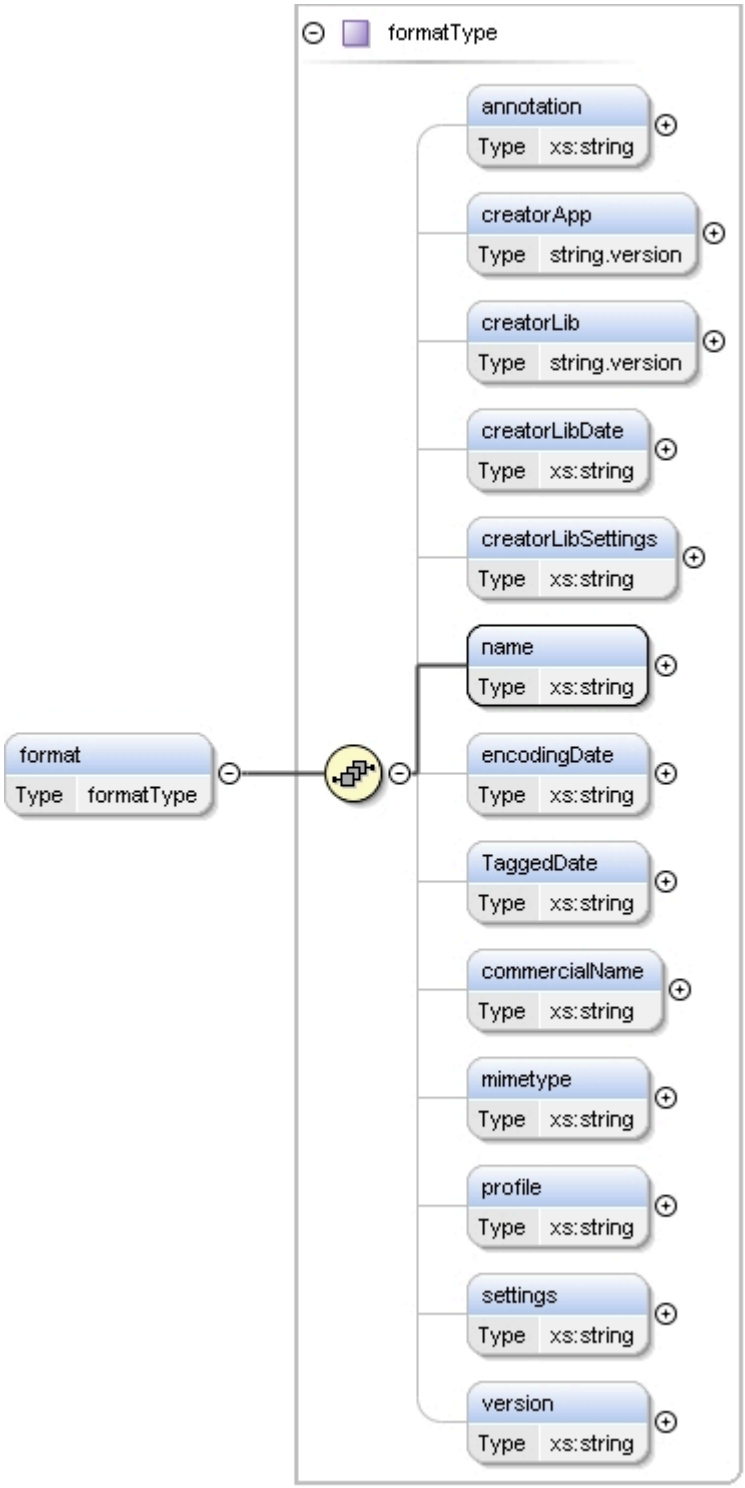
Source

```
<xs:element name="location" minOccurs="0" maxOccurs="unbounded">
  <xs:annotation>
    <xs:documentation>Location of the referenced file</xs:documentation>
  </xs:annotation>
  <xs:complexType>
```

```
    <xs:simpleContent>
      <xs:extension base="xs:string">
        <xs:attribute name="type" use="required">
          <xs:simpleType>
            <xs:restriction base="xs:string">
              <xs:enumeration value="URN"/>
              <xs:enumeration value="URL"/>
              <xs:enumeration value="PURL"/>
              <xs:enumeration value="HANDLE"/>
              <xs:enumeration value="DOI"/>
              <xs:enumeration value="OTHER"/>
            </xs:restriction>
          </xs:simpleType>
        </xs:attribute>
        <xs:attribute name="otherType" type="xs:string" use="optional"/>
      </xs:extension>
    </xs:simpleContent>
  </xs:complexType>
</xs:element>
```

[top]

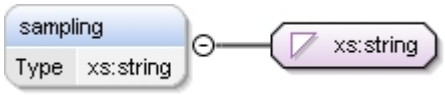
Element fileDataType / format

Namespace	http://www.loc.gov/videoMD/
Diagram	

Type	**formatType**
Properties	Content: **complex** MinOccurs: **0** MaxOccurs: **unbounded**
Model	**annotation{0,1}** , **creatorApp{0,1}** , **creatorLib{0,1}** , **creatorLibDate{0,1}** , **creatorLibSettings{0,1}** , **name** , **encodingDate{0,1}** , **TaggedDate{0,1}** , **commercialName{0,1}** , **mimetype{0,1}** , **profile{0,1}** , **settings{0,1}** , **version{0,1}**
Children	**TaggedDate**, **annotation**, **commercialName**, **creatorApp**, **creatorLib**, **creatorLibDate**, **creatorLibSettings**, **encodingDate**, **mimetype**, **name**, **profile**, **settings**, **version**
Instance	<format> <annotation>{0,1}</annotation> <creatorApp version="">{0,1}</creatorApp> <creatorLib version="">{0,1}</creatorLib> <creatorLibDate>{0,1}</creatorLibDate> <creatorLibSettings>{0,1}</creatorLibSettings> <name>{1,1}</name> <encodingDate>{0,1}</encodingDate> <TaggedDate>{0,1}</TaggedDate> <commercialName>{0,1}</commercialName> <mimetype>{0,1}</mimetype> <profile>{0,1}</profile> <settings>{0,1}</settings> <version>{0,1}</version> </format>
Source	<xs:element name="format" type="formatType" minOccurs="0" maxOccurs="unbounded"/>

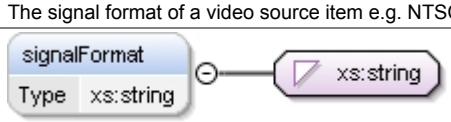
[top]

Element fileDataType / sampling

Namespace	http://www.loc.gov/videoMD/
Definition	sThe video sampling format (in terms of luminance and chrominance), e.g., 4:2:0, 4:2:2, 2:4:4, etc.
Diagram	
Type	**xs:string**
Properties	Content: **simple** MinOccurs: **0** MaxOccurs: **unbounded**
Source	<xs:element name="sampling" type="xs:string" minOccurs="0" maxOccurs="unbounded"> <xs:annotation> <xs:documentation>sThe video sampling format (in terms of luminance and chrominance), e.g., 4:2:0, 4:2:2, 2:4:4, etc. </xs:documentation> </xs:annotation> </xs:element>

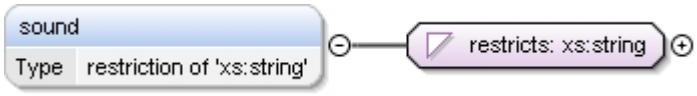
[top]

Element fileDataType / signalFormat

Namespace	http://www.loc.gov/videoMD/
Definition	The signal format of a video source item e.g. NTSC, PAL, SECAM.
Diagram	
Type	**xs:string**
Properties	Content: **simple** MinOccurs: **0** MaxOccurs: **unbounded**
Source	<xs:element name="signalFormat" type="xs:string" minOccurs="0" maxOccurs="unbounded"> <xs:annotation> <xs:documentation>The signal format of a video source item e.g. NTSC, PAL, SECAM.</xs:documentation> </xs:annotation> </xs:element>

[top]

Element fileDataType / sound

Namespace	http://www.loc.gov/videoMD/
Definition	Indicator of the presence of sound in the video file. If the value "yes" is selected, then the video file will also be associated with an instance of audioMD (audio metadata).
Diagram	
Type	restriction of **xs:string**
Properties	Content: **simple** MinOccurs: **0** MaxOccurs: **unbounded**
Facets	Enumeration **Yes** Enumeration **No**
Source	

```
<xs:element name="sound" minOccurs="0" maxOccurs="unbounded">
  <xs:annotation>
    <xs:documentation>Indicator of the presence of sound in the video file. If
                                                                the value "yes" is selected, then the video
file will also be associated
                                                                with an instance of audioMD (audio metadata).
</xs:documentation>
  </xs:annotation>
  <xs:simpleType>
    <xs:restriction base="xs:string">
      <xs:enumeration value="Yes"/>
      <xs:enumeration value="No"/>
    </xs:restriction>
  </xs:simpleType>
</xs:element>
```

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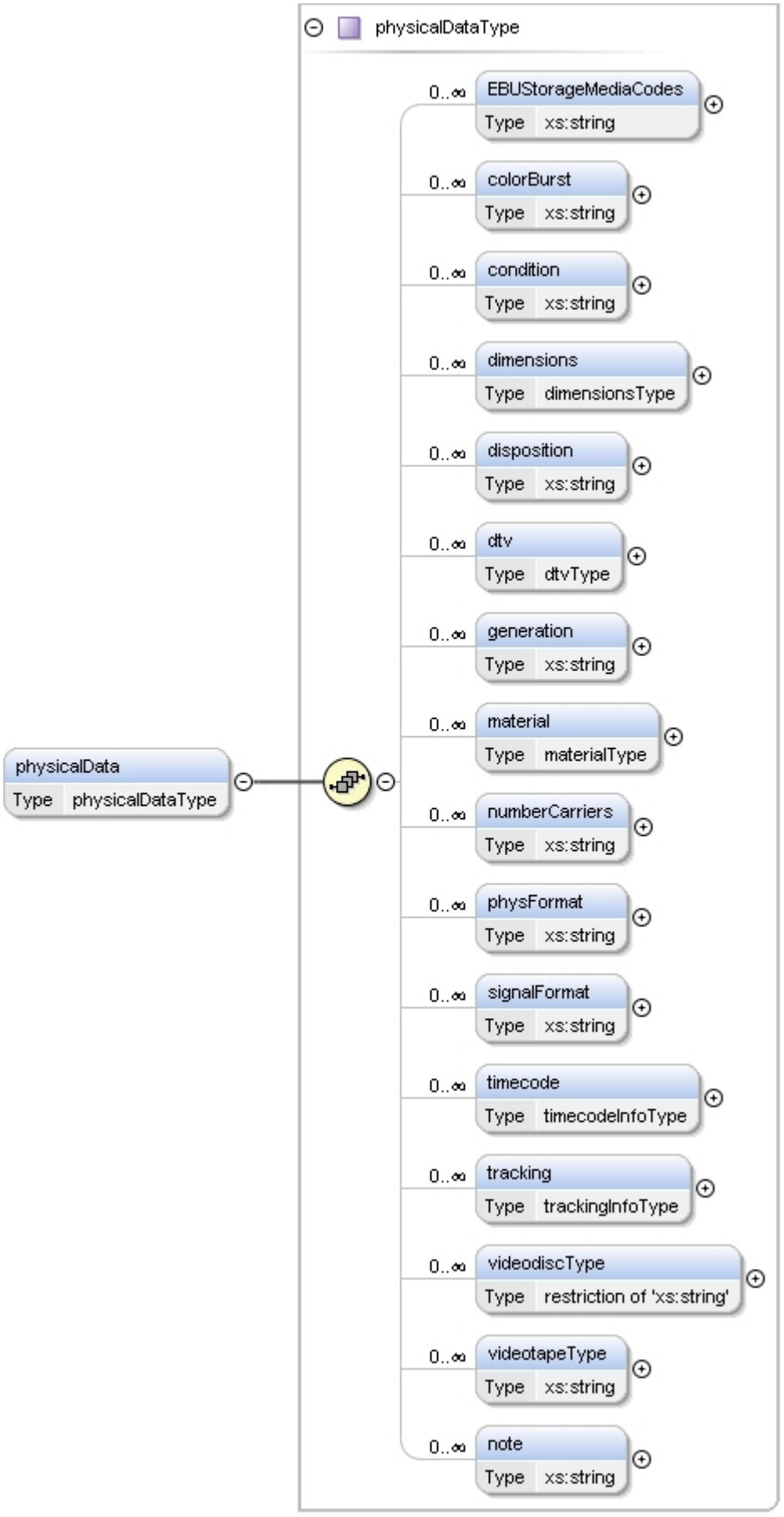
Element videoType / physicalData

Namespace	http://www.loc.gov/videoMD/

Diagram	
Type	**physicalDataType**
Properties	Content: **complex** MinOccurs: **0**
Model	**EBUStorageMediaCodes*** , **colorBurst*** , **condition*** , **dimensions*** , **disposition*** , **dtv*** , **generation*** , **material*** , **numberCarriers*** , **physFormat*** , **signalFormat*** , **timecode*** , **tracking*** , **videodiscType*** , **videotapeType*** , **note***
Children	**EBUStorageMediaCodes**, **colorBurst**, **condition**, **dimensions**, **disposition**, **dtv**, **generation**, **material**, **note**, **numberCarriers**, **physFormat**, **signalFormat**, **timecode**, **tracking**, **videodiscType**, **videotapeType**

Instance	`<physicalData>`
	`  <EBUStorageMediaCodes>{0,unbounded}</EBUStorageMediaCodes>`
	`  <colorBurst>{0,unbounded}</colorBurst>`
	`  <condition>{0,unbounded}</condition>`
	`  <dimensions DEPTH="" DIAMETER="" GAUGE="" HEIGHT="" LENGTH="" NOTE="" THICKNESS="" UNITS="" WIDTH="">`
	`{0,unbounded}</dimensions>`

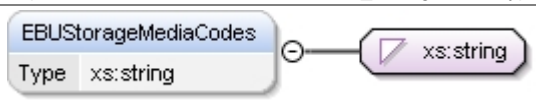
```
  <disposition>{0,unbounded}</disposition>
  <dtv ID="">{0,unbounded}</dtv>
  <generation>{0,unbounded}</generation>
  <material ID="">{0,unbounded}</material>
  <numberCarriers>{0,unbounded}</numberCarriers>
  <physFormat>{0,unbounded}</physFormat>
  <signalFormat>{0,unbounded}</signalFormat>
  <timecode ID="">{0,unbounded}</timecode>
  <tracking ID="">{0,unbounded}</tracking>
  <videodiscType>{0,unbounded}</videodiscType>
  <videotapeType>{0,unbounded}</videotapeType>
  <note>{0,unbounded}</note>
</physicalData>
```

Source

```
<xs:element name="physicalData" type="physicalDataType" minOccurs="0"/>
```

[top]

Element physicalDataType / EBUStorageMediaCodes

Namespace	http://www.loc.gov/videoMD/
Definition	The EBU Storage Media Codes for the physical media. See http://www.ebu.ch/metadata/cs/ebu_StorageMediaTypeCodeCS.xml and http://www.ebu.ch/metadata/cs/web/ebu_StorageMediaTypeCodeCS_p.xml.htm
Diagram	
Type	**xs:string**
Properties	Content: **simple** MinOccurs: **0** MaxOccurs: **unbounded**
Source	


```
<xs:element name="EBUStorageMediaCodes" type="xs:string" minOccurs="0" maxOccurs="unbounded">
  <xs:annotation>
    <xs:documentation>The EBU Storage Media Codes for the physical media. See
http://www.ebu.ch/metadata/cs/ebu_StorageMediaTypeCodeCS.xml and
http://www.ebu.ch/metadata/cs/web/ebu_StorageMediaTypeCodeCS_p.xml.htm</xs:documentation>
  </xs:annotation>
</xs:element>
```

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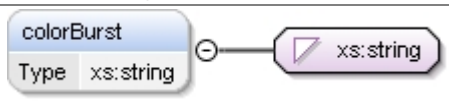
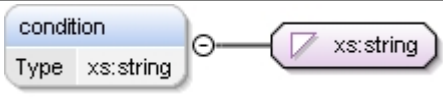
Element physicalDataType / colorBurst

Namespace	http://www.loc.gov/videoMD/
Definition	Indicator of the presence or absence of color burst signal in a video source item.
Diagram	
Type	**xs:string**
Properties	Content: **simple** MinOccurs: **0** MaxOccurs: **unbounded**
Source	


```
<xs:element name="colorBurst" type="xs:string" minOccurs="0" maxOccurs="unbounded">
  <xs:annotation>
    <xs:documentation>Indicator of the presence or absence of color burst signal in a video source item.
</xs:documentation>
  </xs:annotation>
</xs:element>
```

[top]

Element physicalDataType / condition

Namespace	http://www.loc.gov/videoMD/
Definition	The physical condition of a video item.
Diagram	
Type	**xs:string**

Properties		
	Content:	**simple**
	MinOccurs:	**0**
	MaxOccurs:	**unbounded**

Source

```
<xs:element name="condition" type="xs:string" minOccurs="0" maxOccurs="unbounded">
  <xs:annotation>
    <xs:documentation>The physical condition of a video item.</xs:documentation>
  </xs:annotation>
</xs:element>
```

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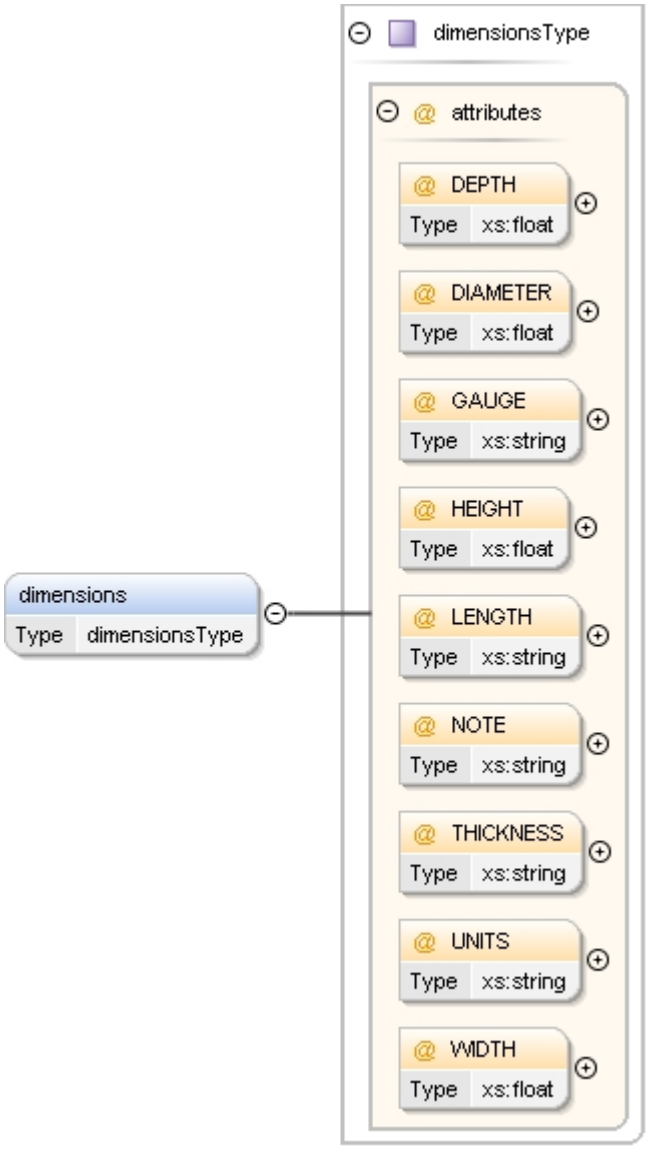
Element physicalDataType / dimensions

Namespace	http://www.loc.gov/videoMD/

Diagram



Type	**dimensionsType**

Properties		
	Content:	**complex**
	MinOccurs:	**0**
	MaxOccurs:	**unbounded**

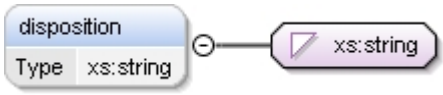
Attributes

QName	Type	Fixed	Default	Use	Annotation
DEPTH	**xs:float**			optional	The depth of the object in the unit of measure indicated in dimensions_unit, e.g., 7, 12.
DIAMETER	**xs:float**			optional	The diameter of any circular object expressed in the unit of measure indicated in dimensions_unit, e.g., 3.5, 5, 7.
GAUGE	**xs:string**			optional	Gauge or width of source tape, including indication of unit of measure, e.g., 8 mm, 0.5 inch, 0.25 inch, etc..
HEIGHT	**xs:float**			optional	Height of the object in the unit of measure indicated in dimensions_unit, e.g., 23.
LENGTH	**xs:string**			optional	Length of source open-reel tape recording, including indication of unit of measure, e.g., 700 feet, 1200 feet, etc..
NOTE	**xs:string**			optional	Desciption of odd-shaped objects that cannot be described using the standard dimensions fields.
THICKNESS	**xs:string**			optional	The thickness of the medium unwound (e.g. tape)
UNITS	**xs:string**			optional	Unit of measurement of the source object, e.g., inches.
WIDTH	**xs:float**			optional	Width of any non-circular object expressed in the unit of measure indicated in dimensions_unit, e.g., 3.5, 5, 7.

Source	
	<xs:element name="dimensions" type="dimensionsType" minOccurs="0" maxOccurs="unbounded"/>

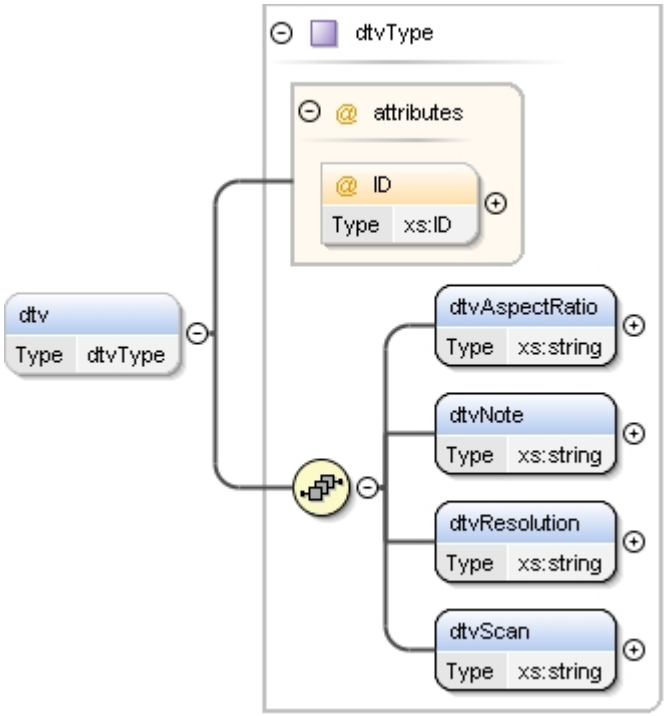
[top]

Element physicalDataType / disposition

Namespace	http://www.loc.gov/videoMD/
Definition	The disposition of a video source item.
Diagram	
Type	**xs:string**
Properties	Content: **simple** MinOccurs: **0** MaxOccurs: **unbounded**
Source	<xs:element name="disposition" type="xs:string" minOccurs="0" maxOccurs="unbounded"> <xs:annotation> <xs:documentation>The disposition of a video source item.</xs:documentation> </xs:annotation> </xs:element>

[top]

Element physicalDataType / dtv

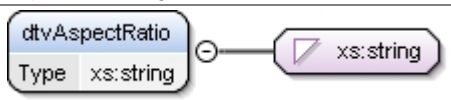
Namespace	http://www.loc.gov/videoMD/
Diagram	 dtvType @ attributes @ ID Type xs:ID dtv Type dtvType dtvAspectRatio Type xs:string dtvNote Type xs:string dtvResolution Type xs:string dtvScan Type xs:string
Type	**dtvType**
Properties	Content: **complex** MinOccurs: **0** MaxOccurs: **unbounded**
Model	**dtvAspectRatio** , **dtvNote** , **dtvResolution** , **dtvScan**
Children	**dtvAspectRatio**, **dtvNote**, **dtvResolution**, **dtvScan**
Instance	<dtv ID=""> <dtvAspectRatio>{1,1}</dtvAspectRatio> <dtvNote>{1,1}</dtvNote> <dtvResolution>{1,1}</dtvResolution> <dtvScan>{1,1}</dtvScan> </dtv>

Attributes	QName	Type	Fixed	Default	Use	Annotation
	ID	**xs:ID**			optional	

Source	
	<xs:element name="dtv" type="dtvType" minOccurs="0" maxOccurs="unbounded"/>

[top]

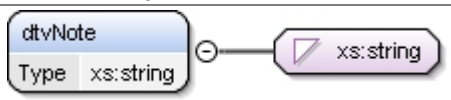
Element dtvType / dtvAspectRatio

Namespace	http://www.loc.gov/videoMD/
Definition	Aspect ratio of high definition video source item expressed as ratio, e.g., 4:3, 16:9, etc.
Diagram	
Type	**xs:string**
Properties	Content: **simple**

Source	`<xs:element name="dtvAspectRatio" type="xs:string">`
	`  <xs:annotation>`
	`  <xs:documentation>Aspect ratio of high definition video source item expressed as ratio, e.g., 4:3, 16:9, etc.</xs:documentation>`
	`  </xs:annotation>`
	`</xs:element>`

[top]

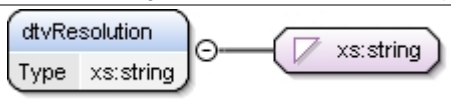
Element dtvType / dtvNote

Namespace	http://www.loc.gov/videoMD/
Definition	Note about a high definition video source item.
Diagram	
Type	**xs:string**
Properties	Content: **simple**

Source	`<xs:element name="dtvNote" type="xs:string">`
	`  <xs:annotation>`
	`  <xs:documentation>Note about a high definition video source item.</xs:documentation>`
	`  </xs:annotation>`
	`</xs:element>`

[top]

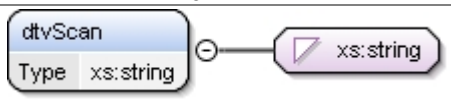
Element dtvType / dtvResolution

Namespace	http://www.loc.gov/videoMD/
Definition	Resolution of high definition video source item expressed as horizontal lines.
Diagram	
Type	**xs:string**
Properties	Content: **simple**

Source	`<xs:element name="dtvResolution" type="xs:string">`
	`  <xs:annotation>`
	`  <xs:documentation>Resolution of high definition video source item expressed as horizontal lines.`
	`</xs:documentation>`
	`  </xs:annotation>`
	`</xs:element>`

[top]

Element dtvType / dtvScan

Namespace	http://www.loc.gov/videoMD/
Definition	Indication whether high definition video source item is scanned in an interlaced or progressive mode.
Diagram	
Type	**xs:string**
Properties	Content: **simple**

Source	<xs:element name="dtvScan" type="xs:string"> <xs:annotation> <xs:documentation>Indication whether high definition video source item is scanned in an interlaced or progressive mode.</xs:documentation> </xs:annotation> </xs:element>

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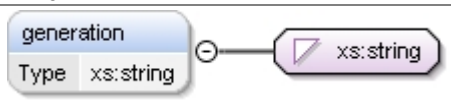
Element physicalDataType / generation

Namespace	http://www.loc.gov/videoMD/
Definition	The generation of a video source item.
Diagram	
Type	**xs:string**
Properties	Content: **simple** MinOccurs: **0** MaxOccurs: **unbounded**
Source	<xs:element name="generation" type="xs:string" minOccurs="0" maxOccurs="unbounded"> <xs:annotation> <xs:documentation>The generation of a video source item.</xs:documentation> </xs:annotation> </xs:element>

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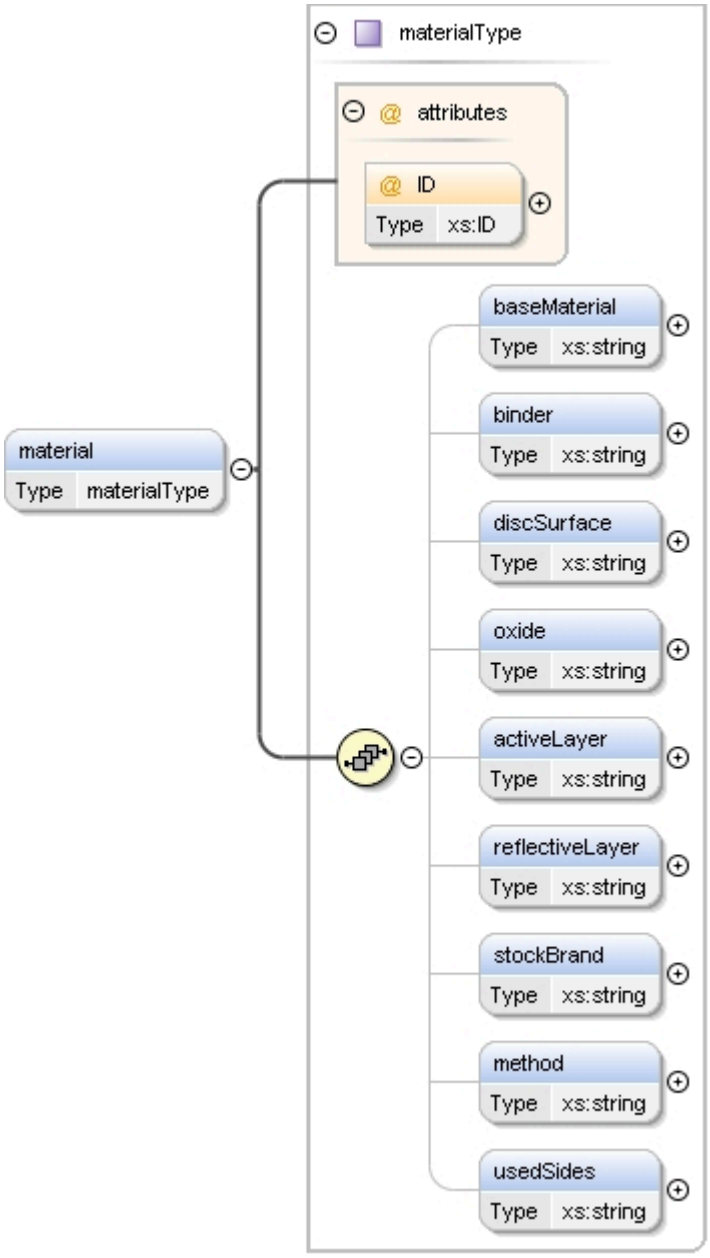
Element physicalDataType / material

Namespace	http://www.loc.gov/videoMD/

Diagram	
Type	**materialType**
Properties	Content: **complex** MinOccurs: **0** MaxOccurs: **unbounded**
Model	**baseMaterial{0,1}** , **binder{0,1}** , **discSurface{0,1}** , **oxide{0,1}** , **activeLayer{0,1}** , **reflectiveLayer{0,1}** , **stockBrand{0,1}** , **method{0,1}** , **usedSides{0,1}**
Children	**activeLayer**, **baseMaterial**, **binder**, **discSurface**, **method**, **oxide**, **reflectiveLayer**, **stockBrand**, **usedSides**

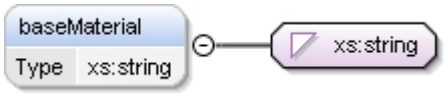
Instance	`<material ID="">`
	`<baseMaterial>{0,1}</baseMaterial>`
	`<binder>{0,1}</binder>`
	`<discSurface>{0,1}</discSurface>`
	`<oxide>{0,1}</oxide>`
	`<activeLayer>{0,1}</activeLayer>`
	`<reflectiveLayer>{0,1}</reflectiveLayer>`
	`<stockBrand>{0,1}</stockBrand>`
	`<method>{0,1}</method>`
	`<usedSides>{0,1}</usedSides>`
	`</material>`

Attributes	QName: ID; Type: **xs:ID**; Fixed: ; Default: ; Use: optional; Annotation:
Source	`<xs:element name="material" type="materialType" minOccurs="0" maxOccurs="unbounded"/>`

[top]

Element materialType / baseMaterial

Namespace	http://www.loc.gov/videoMD/
Definition	Base material used in the recording carrier e.g., plastic, glass, vinyl, mylar, etc..

Diagram	
Type	**xs:string**
Properties	Content: **simple** MinOccurs: **0**

Source	`<xs:element name="baseMaterial" type="xs:string" minOccurs="0">`
	`  <xs:annotation>`
	`  <xs:documentation>Base material used in the recording carrier e.g., plastic, glass, vinyl, mylar, etc..`
	`</xs:documentation>`
	`  </xs:annotation>`
	`</xs:element>`

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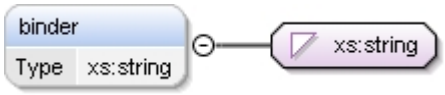
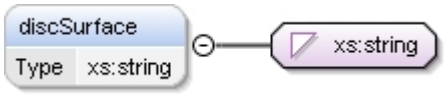
Element materialType / binder

Namespace	http://www.loc.gov/videoMD/
Definition	Type of adhesive used to bind recording surface to the substrate
Diagram	
Type	**xs:string**
Properties	Content: **simple** MinOccurs: **0**

Source	`<xs:element name="binder" type="xs:string" minOccurs="0">`
	`  <xs:annotation>`
	`  <xs:documentation>Type of adhesive used to bind recording surface to the substrate</xs:documentation>`
	`  </xs:annotation>`
	`</xs:element>`

[top]

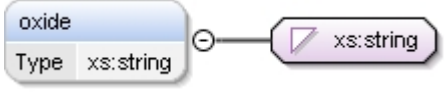
Element materialType / discSurface

Namespace	http://www.loc.gov/videoMD/
Definition	Type of recording surface aluminium, celluloid etc..
Diagram	
Type	**xs:string**
Properties	Content: **simple** MinOccurs: **0**

Source	`<xs:element name="discSurface" type="xs:string" minOccurs="0">`
	`  <xs:annotation>`
	`  <xs:documentation>Type of recording surface aluminium, celluloid etc..</xs:documentation>`
	`  </xs:annotation>`
	`</xs:element>`

[top]

Element materialType / oxide

Namespace	http://www.loc.gov/videoMD/
Definition	Type of oxide used for the coating of a tape recording, e.g.cobalt, chromium dioxide, ferrous oxide.
Diagram	
Type	**xs:string**
Properties	Content: **simple** MinOccurs: **0**

Source	`<xs:element name="oxide" type="xs:string" minOccurs="0">`
	`  <xs:annotation>`
	`  <xs:documentation>Type of oxide used for the coating of a tape recording, e.g.cobalt, chromium dioxide, ferrous oxide.</xs:documentation>`

```
  </xs:annotation>
</xs:element>
```

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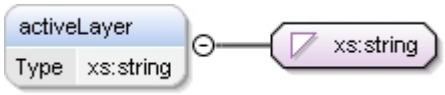
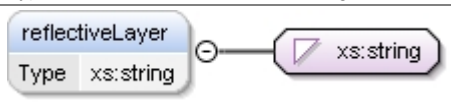
Element materialType / activeLayer

Namespace	http://www.loc.gov/videoMD/
Definition	Type of material used on the recording surface, e.g. dye, tellurium-selenium alloy, etc..
Diagram	
Type	**xs:string**
Properties	Content: **simple** MinOccurs: **0**

Source	`<xs:element name="activeLayer" type="xs:string" minOccurs="0">`
	`  <xs:annotation>`
	`  <xs:documentation>Type of material used on the recording surface, e.g. dye, tellurium-selenium alloy, etc..</xs:documentation>`
	`  </xs:annotation>`
	`</xs:element>`

[top]

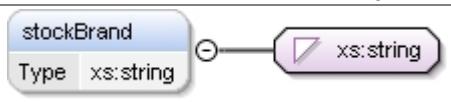
Element materialType / reflectiveLayer

Namespace	http://www.loc.gov/videoMD/
Definition	Type of material used on the recordings reflective surface, e.g. gold, silver aluminium etc..
Diagram	
Type	**xs:string**
Properties	Content: **simple** MinOccurs: **0**

Source	`<xs:element name="reflectiveLayer" type="xs:string" minOccurs="0">`
	`  <xs:annotation>`
	`  <xs:documentation>Type of material used on the recordings reflective surface, e.g. gold, silver aluminium etc..</xs:documentation>`
	`  </xs:annotation>`
	`</xs:element>`

[top]

Element materialType / stockBrand

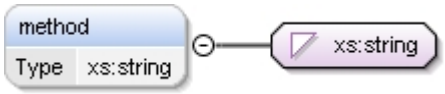
Namespace	http://www.loc.gov/videoMD/
Definition	Name of the manufacturer of the recording medium, e.g. Scotch, Maxell, Sony, etc...
Diagram	
Type	**xs:string**
Properties	Content: **simple** MinOccurs: **0**

Source	`<xs:element name="stockBrand" type="xs:string" minOccurs="0">`
	`  <xs:annotation>`
	`  <xs:documentation>Name of the manufacturer of the recording medium, e.g. Scotch, Maxell, Sony, etc...</xs:documentation>`
	`  </xs:annotation>`
	`</xs:element>`

[top]

Element materialType / method

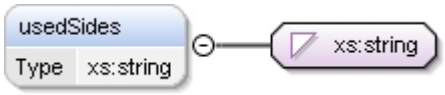
Namespace	http://www.loc.gov/videoMD/

Definition	Methods to press music records e.g. "Direct metal", "Lacquer Master", "Metal Master", "Metal mother", "Pressing", "Metal stamper" and "Test pressing".
Diagram	
Type	**xs:string**
Properties	Content: **simple** MinOccurs: **0**

Source	`<xs:element name="method" type="xs:string" minOccurs="0">`
	`  <xs:annotation>`
	`  <xs:documentation>Methods to press music records e.g. "Direct metal", "Lacquer Master", "Metal Master", "Metal mother", "Pressing", "Metal stamper" and "Test pressing".</xs:documentation>`
	`  </xs:annotation>`
	`</xs:element>`

[top]

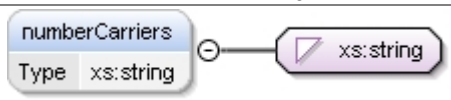
Element materialType / usedSides

Namespace	http://www.loc.gov/videoMD/
Definition	Number of recorded sides of the material
Diagram	
Type	**xs:string**
Properties	Content: **simple** MinOccurs: **0**

Source	`<xs:element name="usedSides" type="xs:string" minOccurs="0">`
	`  <xs:annotation>`
	`  <xs:documentation>Number of recorded sides of the material</xs:documentation>`
	`  </xs:annotation>`
	`</xs:element>`

[top]

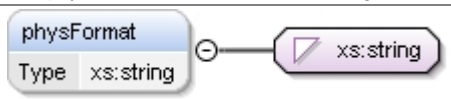
Element physicalDataType / numberCarriers

Namespace	http://www.loc.gov/videoMD/
Definition	The number of containers holding a video source item.
Diagram	
Type	**xs:string**
Properties	Content: **simple** MinOccurs: **0** MaxOccurs: **unbounded**

Source	`<xs:element name="numberCarriers" type="xs:string" minOccurs="0" maxOccurs="unbounded">`
	`  <xs:annotation>`
	`  <xs:documentation>The number of containers holding a video source item.</xs:documentation>`
	`  </xs:annotation>`
	`</xs:element>`

[top]

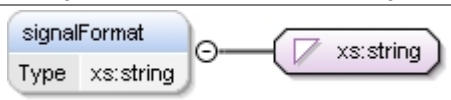
Element physicalDataType / physFormat

Namespace	http://www.loc.gov/videoMD/
Definition	The physical format of the video item. e.g. reel-to-reel tape, 1/4 inch cassette, etc...
Diagram	
Type	**xs:string**
Properties	Content: **simple** MinOccurs: **0** MaxOccurs: **unbounded**

Source	<xs:element name="physFormat" type="xs:string" minOccurs="0" maxOccurs="unbounded"> <xs:annotation> <xs:documentation>The physical format of the video item. e.g. reel-to-reel tape, 1/4 inch cassette, etc...</xs:documentation> </xs:annotation> </xs:element>

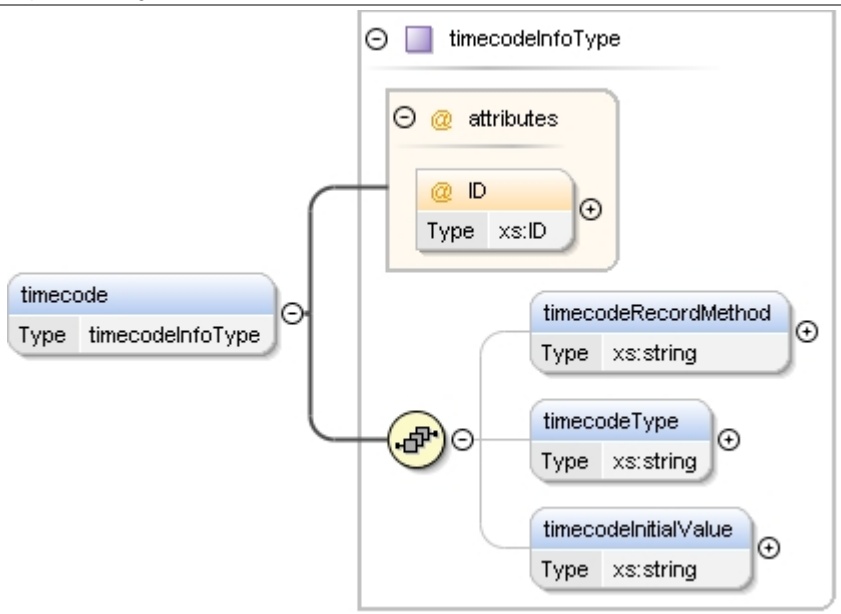
[top]

Element physicalDataType / signalFormat

Namespace	http://www.loc.gov/videoMD/
Definition	The signal format of a video source item e.g. NTSC, PAL, SECAM.
Diagram	
Type	**xs:string**
Properties	Content: **simple** MinOccurs: **0** MaxOccurs: **unbounded**
Source	<xs:element name="signalFormat" type="xs:string" minOccurs="0" maxOccurs="unbounded"> <xs:annotation> <xs:documentation>The signal format of a video source item e.g. NTSC, PAL, SECAM.</xs:documentation> </xs:annotation> </xs:element>

[top]

Element physicalDataType / timecode

Namespace	http://www.loc.gov/videoMD/
Diagram	
Type	**timecodeInfoType**
Properties	Content: **complex** MinOccurs: **0** MaxOccurs: **unbounded**
Model	**timecodeRecordMethod{0,1}** , **timecodeType{0,1}** , **timecodeInitialValue{0,1}**
Children	**timecodeInitialValue**, **timecodeRecordMethod**, **timecodeType**
Instance	<timecode ID=""> <timecodeRecordMethod>{0,1}</timecodeRecordMethod> <timecodeType>{0,1}</timecodeType> <timecodeInitialValue>{0,1}</timecodeInitialValue> </timecode>

Attributes

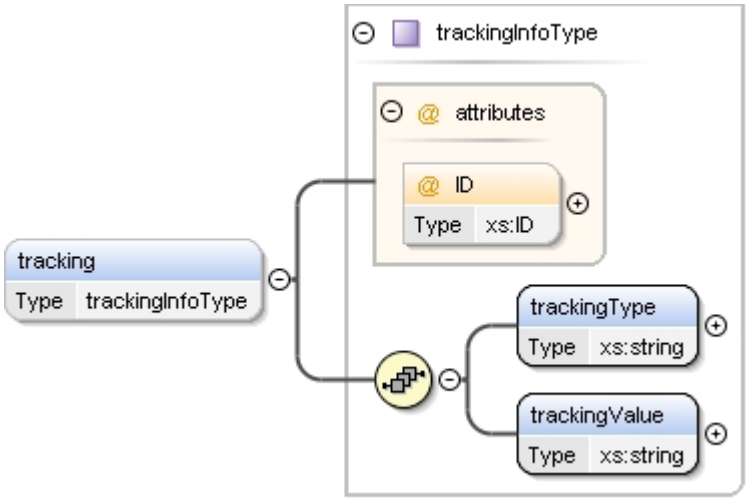
QName	Type	Fixed	Default	Use	Annotation
ID	**xs:ID**			optional	

Source

<xs:element name="timecode" type="timecodeInfoType" minOccurs="0" maxOccurs="unbounded"/>

[top]

Element physicalDataType / tracking

Namespace	http://www.loc.gov/videoMD/
Diagram	
Type	**trackingInfoType**
Properties	Content: **complex** MinOccurs: **0** MaxOccurs: **unbounded**
Model	**trackingType** , **trackingValue**
Children	**trackingType**, **trackingValue**

Instance	`<tracking ID="">`
	`<trackingType>{1,1}</trackingType>`
	`<trackingValue>{1,1}</trackingValue>`
	`</tracking>`

Attributes

QName	Type	Fixed	Default	Use	Annotation
ID	**xs:ID**			optional	

Source


```
<xs:element name="tracking" type="trackingInfoType" minOccurs="0" maxOccurs="unbounded"/>
```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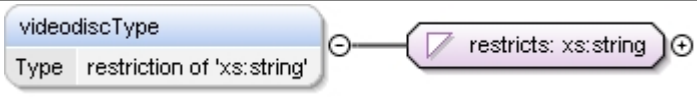
Element physicalDataType / videodiscType

Namespace	http://www.loc.gov/videoMD/
Definition	The type of videodisc used for a video source item.
Diagram	
Type	restriction of **xs:string**
Properties	Content: **simple** MinOccurs: **0** MaxOccurs: **unbounded**
Facets	Enumeration **CLV** Enumeration **CAV**

Source


```
<xs:element name="videodiscType" minOccurs="0" maxOccurs="unbounded">
  <xs:annotation>
    <xs:documentation>The type of videodisc used for a video source item.</xs:documentation>
  </xs:annotation>
  <xs:simpleType>
    <xs:restriction base="xs:string">
      <xs:enumeration value="CLV"/>
      <xs:enumeration value="CAV"/>
    </xs:restriction>
  </xs:simpleType>
</xs:element>
```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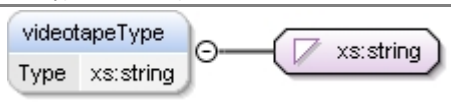
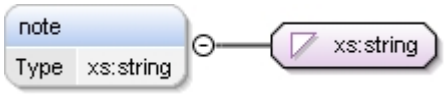
Element physicalDataType / videotapeType

Namespace	http://www.loc.gov/videoMD/
Definition	The type of videotape used for a video source item.
Diagram	
Type	**xs:string**
Properties	Content: **simple** MinOccurs: **0** MaxOccurs: **unbounded**

Source	`<xs:element name="videotapeType" type="xs:string" minOccurs="0" maxOccurs="unbounded">`
	`  <xs:annotation>`
	`  <xs:documentation>The type of videotape used for a video source item.</xs:documentation>`
	`  </xs:annotation>`
	`</xs:element>`

[top]

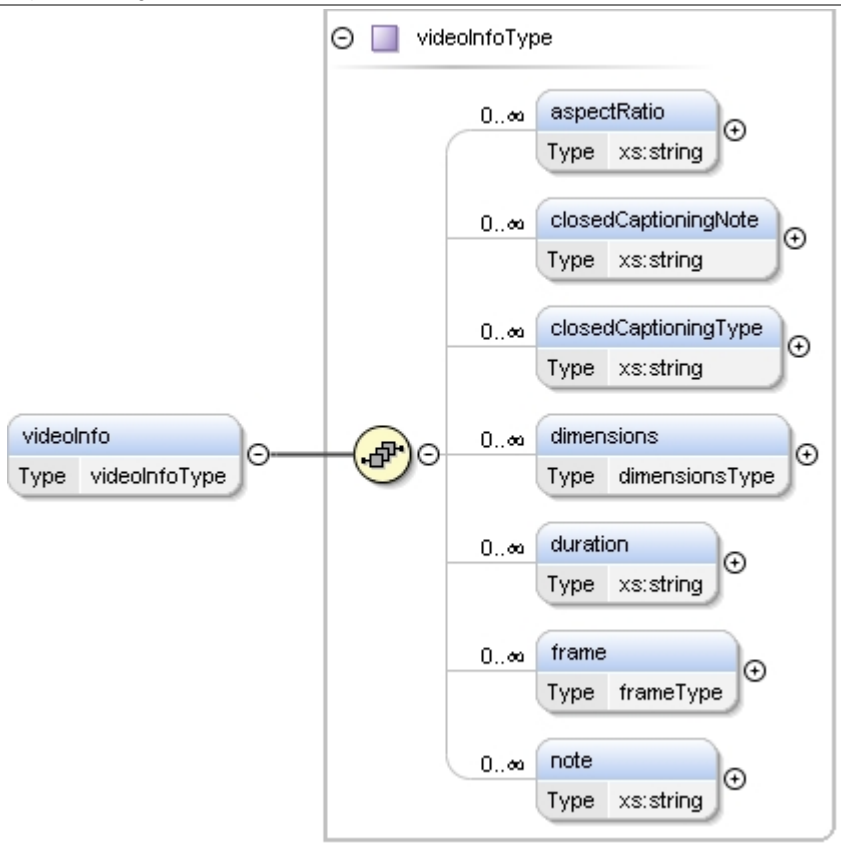
Element physicalDataType / note

Namespace	http://www.loc.gov/videoMD/
Definition	Additional information or comments about the video file.
Diagram	
Type	**xs:string**
Properties	Content: **simple** MinOccurs: **0** MaxOccurs: **unbounded**

Source	`<xs:element name="note" type="xs:string" minOccurs="0" maxOccurs="unbounded">`
	`  <xs:annotation>`
	`  <xs:documentation>Additional information or comments about the video file.</xs:documentation>`
	`  </xs:annotation>`
	`</xs:element>`

[top]

Element videoType / videoInfo

Namespace	http://www.loc.gov/videoMD/
Diagram	 videoInfoType 0..∞ aspectRatio Type xs:string 0..∞ closedCaptioningNote Type xs:string 0..∞ closedCaptioningType Type xs:string 0..∞ dimensions Type dimensionsType 0..∞ duration Type xs:string 0..∞ frame Type frameType 0..∞ note Type xs:string videoInfo Type videoInfoType
Type	**videoInfoType**

Properties	Content: **complex** MinOccurs: **0**
Model	**aspectRatio*** , **closedCaptioningNote*** , **closedCaptioningType*** , **dimensions*** , **duration*** , **frame*** , **note***
Children	**aspectRatio**, **closedCaptioningNote**, **closedCaptioningType**, **dimensions**, **duration**, **frame**, **note**

Instance	`<videoInfo>`
	`  <aspectRatio>{0,unbounded}</aspectRatio>`
	`  <closedCaptioningNote>{0,unbounded}</closedCaptioningNote>`
	`  <closedCaptioningType>{0,unbounded}</closedCaptioningType>`
	`  <dimensions DEPTH="" DIAMETER="" GAUGE="" HEIGHT="" LENGTH="" NOTE="" THICKNESS="" UNITS="" WIDTH="">{0,unbounded}</dimensions>`
	`  <duration>{0,unbounded}</duration>`
	`  <frame ID="">{0,unbounded}</frame>`
	`  <note>{0,unbounded}</note>`
	`</videoInfo>`

Source	`<xs:element name="videoInfo" type="videoInfoType" minOccurs="0"/>`

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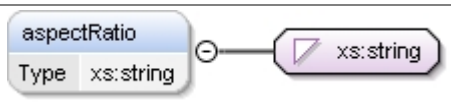
Element videoInfoType / aspectRatio

Namespace	http://www.loc.gov/videoMD/
Definition	The desired aspect ratio of the image on screen, e.g., 4:3, etc. Some files produced for display on non-square-pixel monitors have a desired aspect ratio that differs from the ratio of horizontal to vertical pixels.
Diagram	
Type	**xs:string**
Properties	Content: **simple** MinOccurs: **0** MaxOccurs: **unbounded**

Source	`<xs:element name="aspectRatio" type="xs:string" minOccurs="0" maxOccurs="unbounded">`
	`  <xs:annotation>`
	`  <xs:documentation>The desired aspect ratio of the image on screen, e.g., 4:3, etc. Some files produced for display on non-square-pixel monitors have a desired aspect ratio that differs from the ratio of horizontal to vertical pixels.</xs:documentation>`
	`  </xs:annotation>`
	`</xs:element>`

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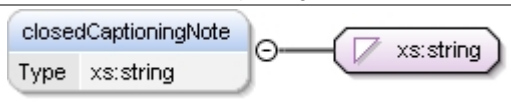
Element videoInfoType / closedCaptioningNote

Namespace	http://www.loc.gov/videoMD/
Definition	Notes about the closed captioning in a video source item.
Diagram	
Type	**xs:string**
Properties	Content: **simple** MinOccurs: **0** MaxOccurs: **unbounded**

Source	`<xs:element name="closedCaptioningNote" type="xs:string" minOccurs="0" maxOccurs="unbounded">`
	`  <xs:annotation>`
	`  <xs:documentation>Notes about the closed captioning in a video source item.</xs:documentation>`
	`  </xs:annotation>`
	`</xs:element>`

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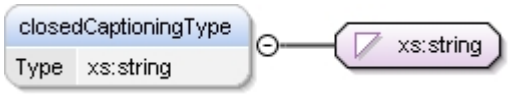
Element videoInfoType / closedCaptioningType

Namespace	http://www.loc.gov/videoMD/
Definition	The type of closed captioning in a video source item.

Diagram	
Type	**xs:string**
Properties	Content: **simple** MinOccurs: **0** MaxOccurs: **unbounded**

Source	`<xs:element name="closedCaptioningType" type="xs:string" minOccurs="0" maxOccurs="unbounded">`
	`  <xs:annotation>`
	`  <xs:documentation>The type of closed captioning in a video source item.</xs:documentation>`
	`  </xs:annotation>`
	`</xs:element>`

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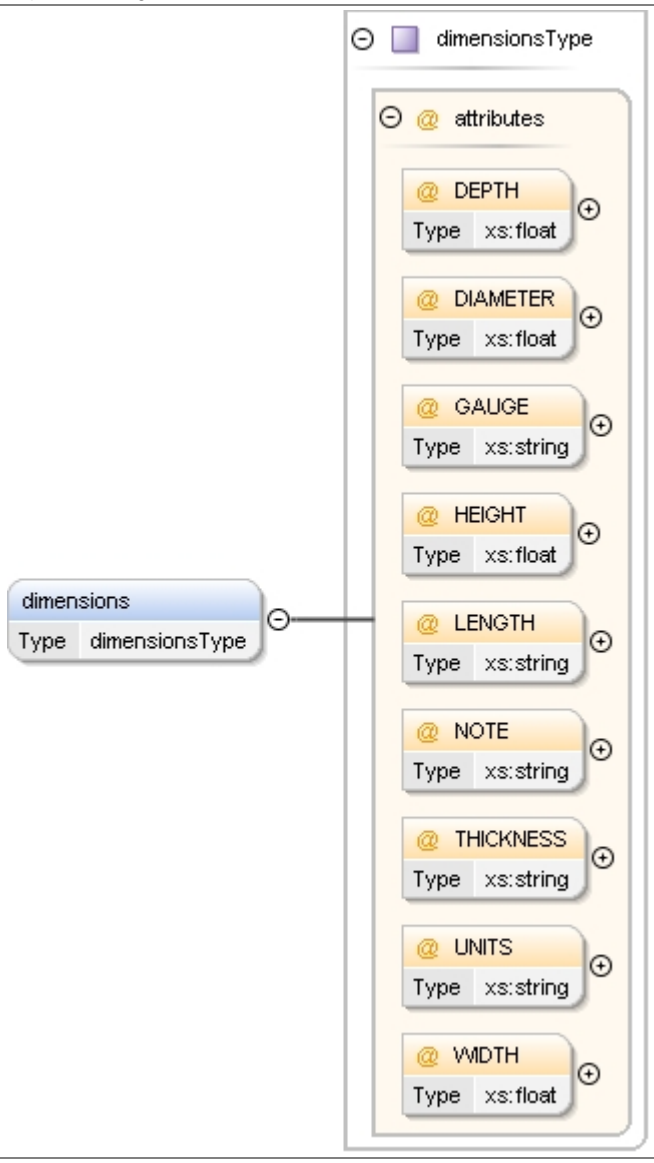
Element videoInfoType / dimensions

Namespace	http://www.loc.gov/videoMD/
Diagram	
Type	**dimensionsType**
Properties	Content: **complex** MinOccurs: **0** MaxOccurs: **unbounded**

Attributes

QName	Type	Fixed	Default	Use	Annotation
DEPTH	**xs:float**			optional	The depth of the object in the unit of measure indicated in dimensions_unit, e.g., 7, 12.
DIAMETER	**xs:float**			optional	The diameter of any circular object expressed in the unit of measure indicated in dimensions_unit, e.g., 3.5, 5, 7.
GAUGE	**xs:string**			optional	Gauge or width of source tape, including indication of unit of measure, e.g., 8 mm, 0.5 inch, 0.25 inch, etc..
HEIGHT	**xs:float**			optional	Height of the object in the unit of measure indicated in dimensions_unit, e.g., 23.
LENGTH	**xs:string**			optional	Length of source open-reel tape recording, including indication of unit of measure, e.g., 700 feet, 1200 feet, etc..
NOTE	**xs:string**			optional	Desciption of odd-shaped objects that cannot be described using the standard dimensions fields.

QName	Type	Fixed	Default	Use	Annotation
THICKNESS	**xs:string**			optional	The thickness of the medium unwound (e.g. tape)
UNITS	**xs:string**			optional	Unit of measurement of the source object, e.g., inches.
WIDTH	**xs:float**			optional	Width of any non-circular object expressed in the unit of measure indicated in dimensions_unit, e.g., 3.5, 5, 7.

Source

```
<xs:element name="dimensions" type="dimensionsType" minOccurs="0" maxOccurs="unbounded"/>
```

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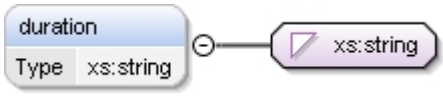
Element videoInfoType / duration

Namespace	http://www.loc.gov/videoMD/
Definition	Elapsed time of the entire file, expressed using ISO 8601 syntax; see http://www.w3.org/TR/NOTE-datetime.
Diagram	
Type	**xs:string**
Properties	Content: **simple** MinOccurs: **0** MaxOccurs: **unbounded**

Source

```
<xs:element name="duration" type="xs:string" minOccurs="0" maxOccurs="unbounded">
  <xs:annotation>
    <xs:documentation>Elapsed time of the entire file, expressed using ISO 8601 syntax; see
http://www.w3.org/TR/NOTE-datetime.</xs:documentation>
  </xs:annotation>
</xs:element>
```

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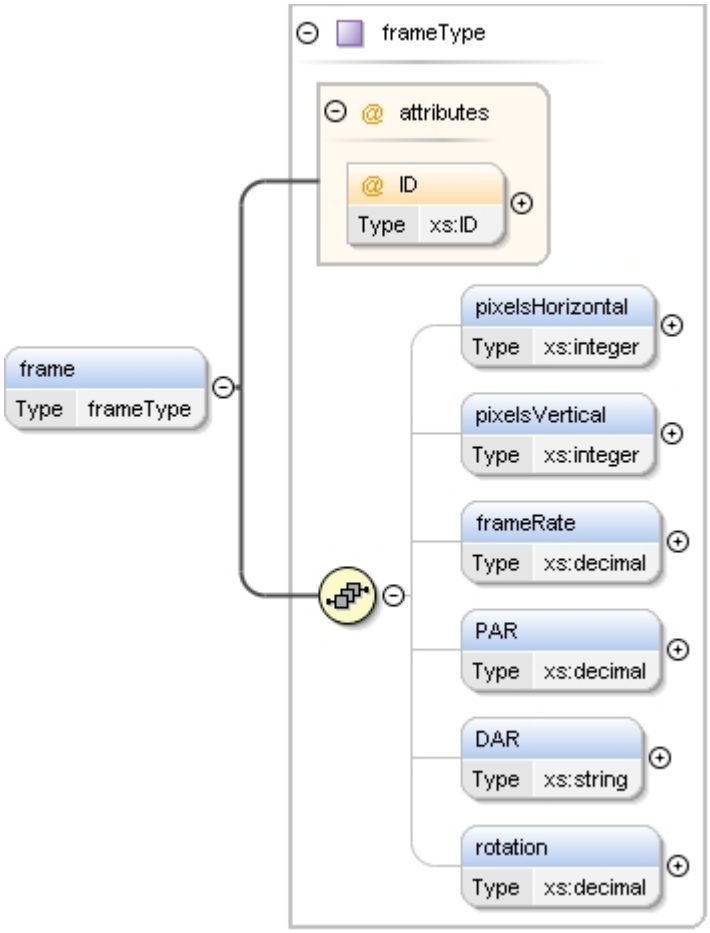
Element videoInfoType / frame

Namespace	http://www.loc.gov/videoMD/
Diagram	
Type	**frameType**
Properties	Content: **complex** MinOccurs: **0** MaxOccurs: **unbounded**
Model	**pixelsHorizontal{0,1}** , **pixelsVertical{0,1}** , **frameRate{0,1}** , **PAR{0,1}** , **DAR{0,1}** , **rotation{0,1}**
Children	**DAR**, **PAR**, **frameRate**, **pixelsHorizontal**, **pixelsVertical**, **rotation**

Instance	<frame ID=""> <pixelsHorizontal>{0,1}</pixelsHorizontal> <pixelsVertical>{0,1}</pixelsVertical> <frameRate>{0,1}</frameRate> <PAR>{0,1}</PAR> <DAR>{0,1}</DAR> <rotation>{0,1}</rotation> </frame>
Attributes	QName: ID; Type: **xs:ID**; Fixed: ; Default: ; Use: optional; Annotation:
Source	<xs:element name="frame" type="frameType" minOccurs="0" maxOccurs="unbounded"/>

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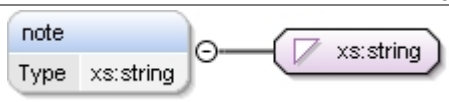
Element videoInfoType / note

Namespace	http://www.loc.gov/videoMD/
Definition	Miscellaneous information about the video file. e.g. digital alterations or enhancements to improve quality.
Diagram	
Type	**xs:string**
Properties	Content: **simple** MinOccurs: **0** MaxOccurs: **unbounded**
Source	<xs:element name="note" type="xs:string" minOccurs="0" maxOccurs="unbounded"> <xs:annotation> <xs:documentation>Miscellaneous information about the video file. e.g. digital alterations or enhancements to improve quality.</xs:documentation> </xs:annotation> </xs:element>

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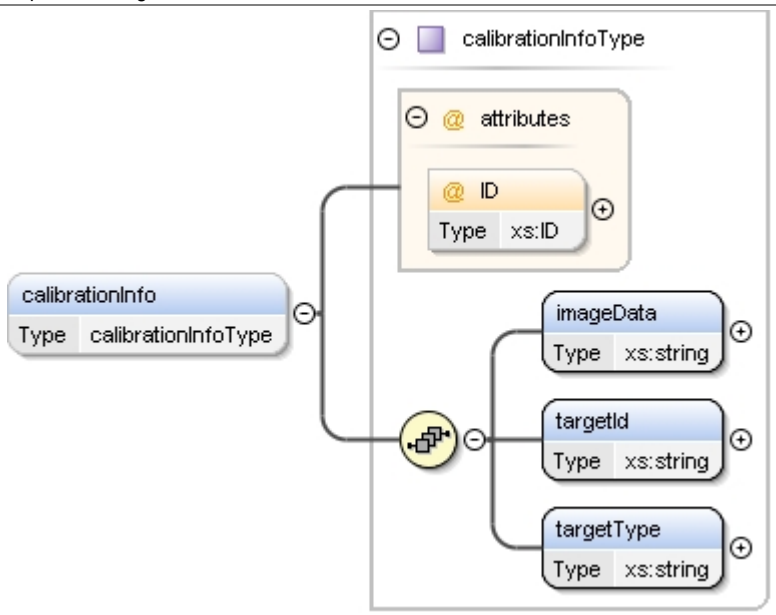
Element videoType / calibrationInfo

Namespace	http://www.loc.gov/videoMD/
Diagram	
Type	**calibrationInfoType**
Properties	Content: **complex** MinOccurs: **0**
Model	**imageData** , **targetId** , **targetType**
Children	**imageData**, **targetId**, **targetType**
Instance	<calibrationInfo ID=""> <imageData>{1,1}</imageData> <targetId>{1,1}</targetId>

```
  <targetType>{1,1}</targetType>
</calibrationInfo>
```

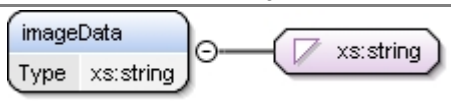
Attributes	QName	Type	Fixed	Default	Use	Annotation
	ID	**xs:ID**			optional	

Source

```
<xs:element name="calibrationInfo" type="calibrationInfoType" minOccurs="0"/>
```

[top]

Element calibrationInfoType / imageData

Namespace	http://www.loc.gov/videoMD/
Definition	Location of the calibration target file if not contained within the image file (external) e.g. URN, URL, etc..
Diagram	
Type	**xs:string**
Properties	Content: **simple**
Source	

```
<xs:element name="imageData" type="xs:string">
  <xs:annotation>
    <xs:documentation>Location of the calibration target file if not contained within the image file
(external) e.g. URN, URL, etc..</xs:documentation>
  </xs:annotation>
</xs:element>
```

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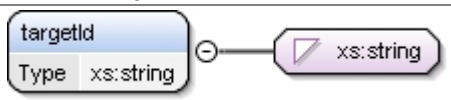
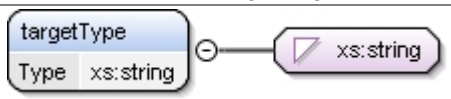
Element calibrationInfoType / targetId

Namespace	http://www.loc.gov/videoMD/
Definition	Calibration target name, manufacturer, version, etc..
Diagram	
Type	**xs:string**
Properties	Content: **simple**
Source	

```
<xs:element name="targetId" type="xs:string">
  <xs:annotation>
    <xs:documentation>Calibration target name, manufacturer, version, etc..</xs:documentation>
  </xs:annotation>
</xs:element>
```

[top]

Element calibrationInfoType / targetType

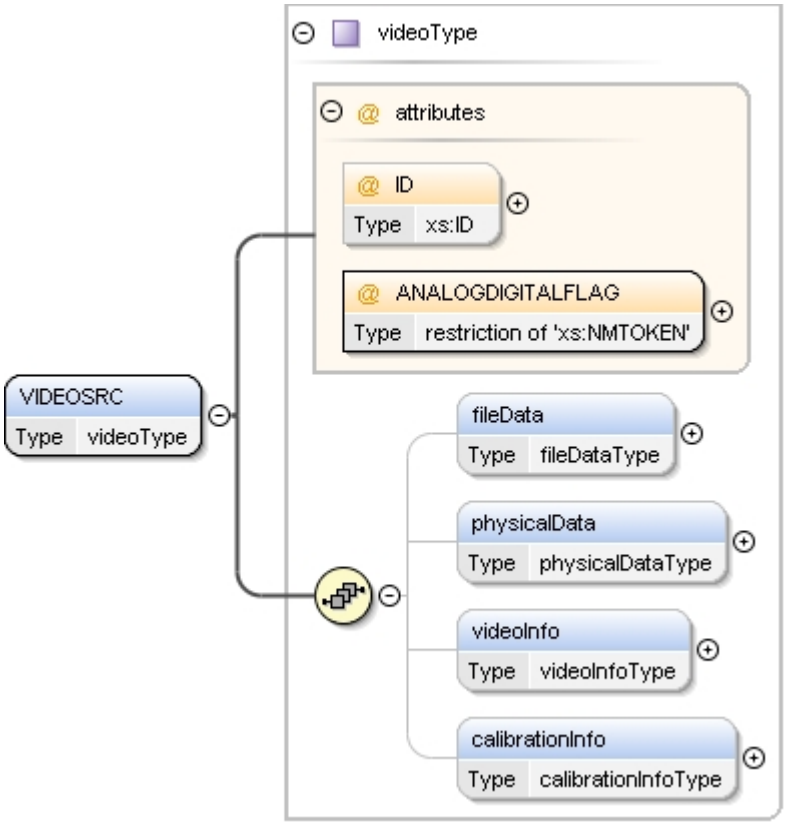
Namespace	http://www.loc.gov/videoMD/
Definition	Identifies the calibration target image as internal or external to the image file itself.
Diagram	
Type	**xs:string**
Properties	Content: **simple**
Source	

```
<xs:element name="targetType" type="xs:string">
  <xs:annotation>
    <xs:documentation>Identifies the calibration target image as internal or external to the image file
itself.</xs:documentation>
  </xs:annotation>
</xs:element>
```

[top]

Element VIDEOSRC

Namespace	http://www.loc.gov/videoMD/

Diagram	
Type	**videoType**
Properties	Content: **complex**
Model	**fileData{0,1}** , **physicalData{0,1}** , **videoInfo{0,1}** , **calibrationInfo{0,1}**
Children	**calibrationInfo**, **fileData**, **physicalData**, **videoInfo**

Instance	`<VIDEOSRC ANALOGDIGITALFLAG="" ID="">`
	`  <fileData>{0,1}</fileData>`
	`  <physicalData>{0,1}</physicalData>`
	`  <videoInfo>{0,1}</videoInfo>`
	`  <calibrationInfo ID="">{0,1}</calibrationInfo>`
	`</VIDEOSRC>`

Attributes

QName	Type	Fixed	Default	Use	Annotation
ANALOGDIGITALFLAG	restriction of **xs:NMTOKEN**			required	
ID	**xs:ID**			optional	

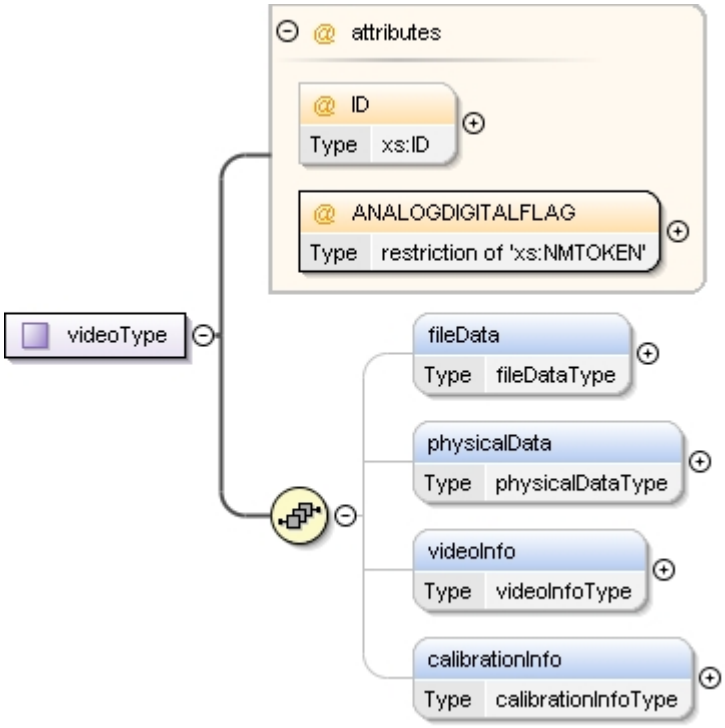
Source

`<xs:element name="VIDEOSRC" type="videoType"/>`

[top]

Complex Type videoType

Namespace	http://www.loc.gov/videoMD/
Definition	A complexType for encapsulating and organizing within a singleparent element the individual video metadata elements that describe an object or portion of an object. The four individual elements that comprise an video object are documented under their corresponding types.

Diagram	
Used by	Elements **VIDEOMD**, **VIDEOSRC**
Model	**fileData{0,1}** , **physicalData{0,1}** , **videoInfo{0,1}** , **calibrationInfo{0,1}**
Children	**calibrationInfo**, **fileData**, **physicalData**, **videoInfo**

Attributes

QName	Type	Fixed	Default	Use	Annotation
ANALOGDIGITALFLAG	restriction of **xs:NMTOKEN**			required	
ID	**xs:ID**			optional	

Source

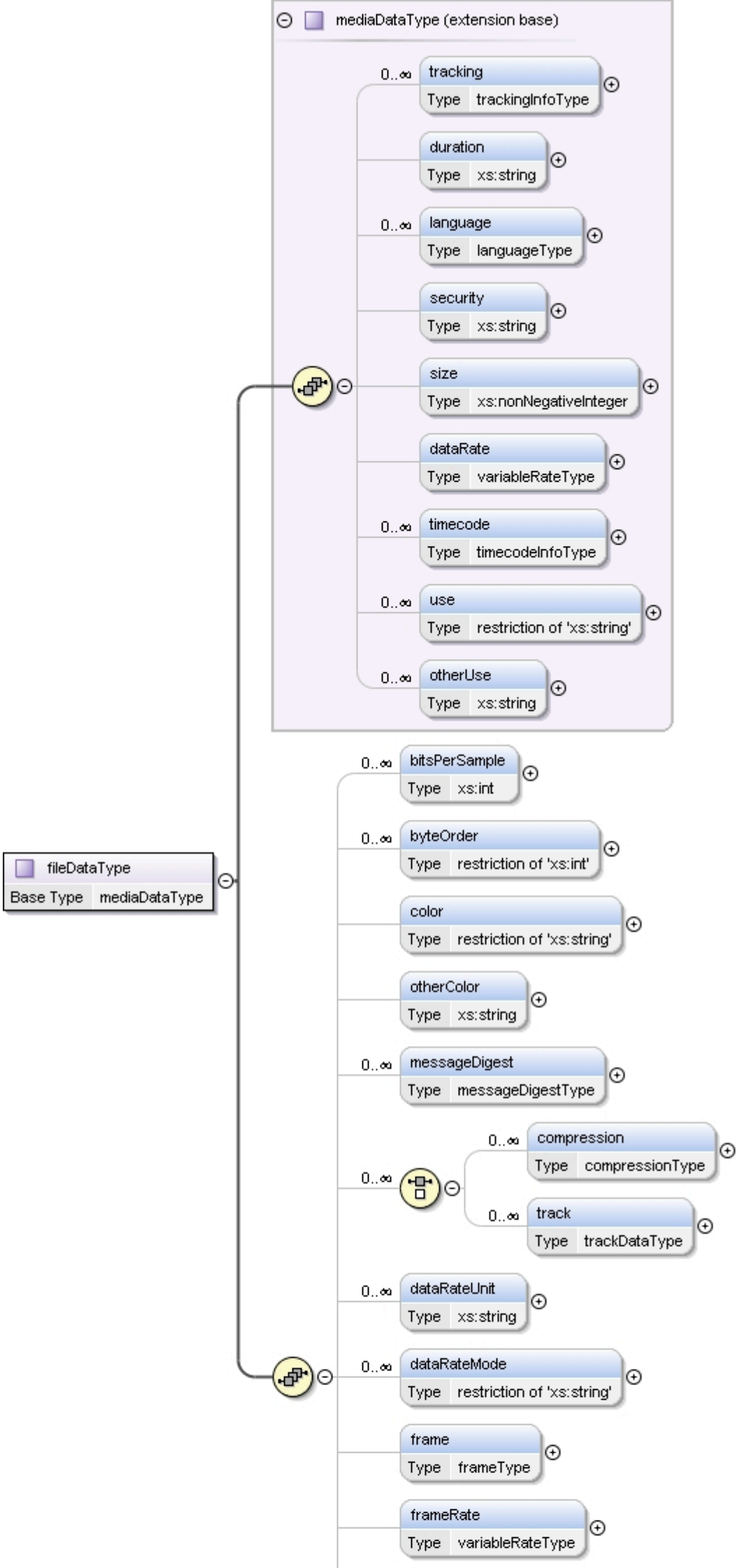
```
<xs:complexType name="videoType">
  <xs:annotation>
    <xs:documentation>A complexType for encapsulating and organizing within a
                                singleparent element the individual video metadata elements that describe an
object
                                or portion of an object. The four individual elements that comprise an video
object
                                are documented under their corresponding types.</xs:documentation>
  </xs:annotation>
  <xs:sequence>
    <xs:element name="fileData" type="fileDataType" minOccurs="0"/>
    <xs:element name="physicalData" type="physicalDataType" minOccurs="0"/>
    <xs:element name="videoInfo" type="videoInfoType" minOccurs="0"/>
    <xs:element name="calibrationInfo" type="calibrationInfoType" minOccurs="0"/>
  </xs:sequence>
  <xs:attribute name="ID" type="xs:ID"/>
  <xs:attribute name="ANALOGDIGITALFLAG" use="required">
    <xs:simpleType>
      <xs:restriction base="xs:NMTOKEN">
        <xs:enumeration value="Analog"/>
        <xs:enumeration value="PhysDigital"/>
        <xs:enumeration value="FileDigital"/>
      </xs:restriction>
    </xs:simpleType>
  </xs:attribute>
</xs:complexType>
```

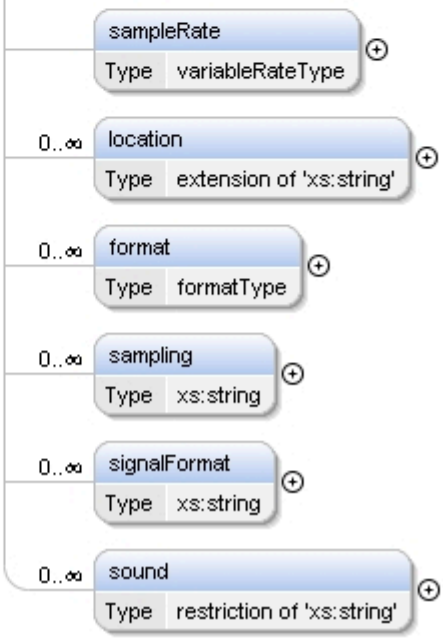
[top]

Complex Type fileDataType

Namespace	http://www.loc.gov/videoMD/
Definition	A type for describing technical characteristics of a video file.

Diagram	


mediaDataType (extension base)
0..∞ tracking
Type trackingInfoType
duration
Type xs:string
0..∞ language
Type languageType
security
Type xs:string
size
Type xs:nonNegativeInteger
dataRate
Type variableRateType
0..∞ timecode
Type timecodeInfoType
0..∞ use
Type restriction of 'xs:string'
0..∞ otherUse
Type xs:string
fileDataType
Base Type mediaDataType
0..∞ bitsPerSample
Type xs:int
0..∞ byteOrder
Type restriction of 'xs:int'
color
Type restriction of 'xs:string'
otherColor
Type xs:string
0..∞ messageDigest
Type messageDigestType
0..∞ compression
Type compressionType
0..∞ track
Type trackDataType
0..∞ dataRateUnit
Type xs:string
0..∞ dataRateMode
Type restriction of 'xs:string'
frame
Type frameType
frameRate
Type variableRateType



Type	extension of **mediaDataType**
Type hierarchy	**mediaDataType** ↳ **fileDataType**
Used by	Element **videoType/fileData**
Model	**tracking*** , **duration{0,1}** , **language*** , **security{0,1}** , **size{0,1}** , **dataRate{0,1}** , **timecode*** , **use*** , **otherUse*** , **bitsPerSample*** , **byteOrder*** , **color{0,1}** , **otherColor{0,1}** , **messageDigest*** , (**compression*** | **track***) , **dataRateUnit*** , **dataRateMode*** , **frame{0,1}** , **frameRate{0,1}** , **sampleRate{0,1}** , **location*** , **format*** , **sampling*** , **signalFormat*** , **sound***
Children	**bitsPerSample**, **byteOrder**, **color**, **compression**, **dataRate**, **dataRateMode**, **dataRateUnit**, **duration**, **format**, **frame**, **frameRate**, **language**, **location**, **messageDigest**, **otherColor**, **otherUse**, **sampleRate**, **sampling**, **security**, **signalFormat**, **size**, **sound**, **timecode**, **track**, **tracking**, **use**
Source	

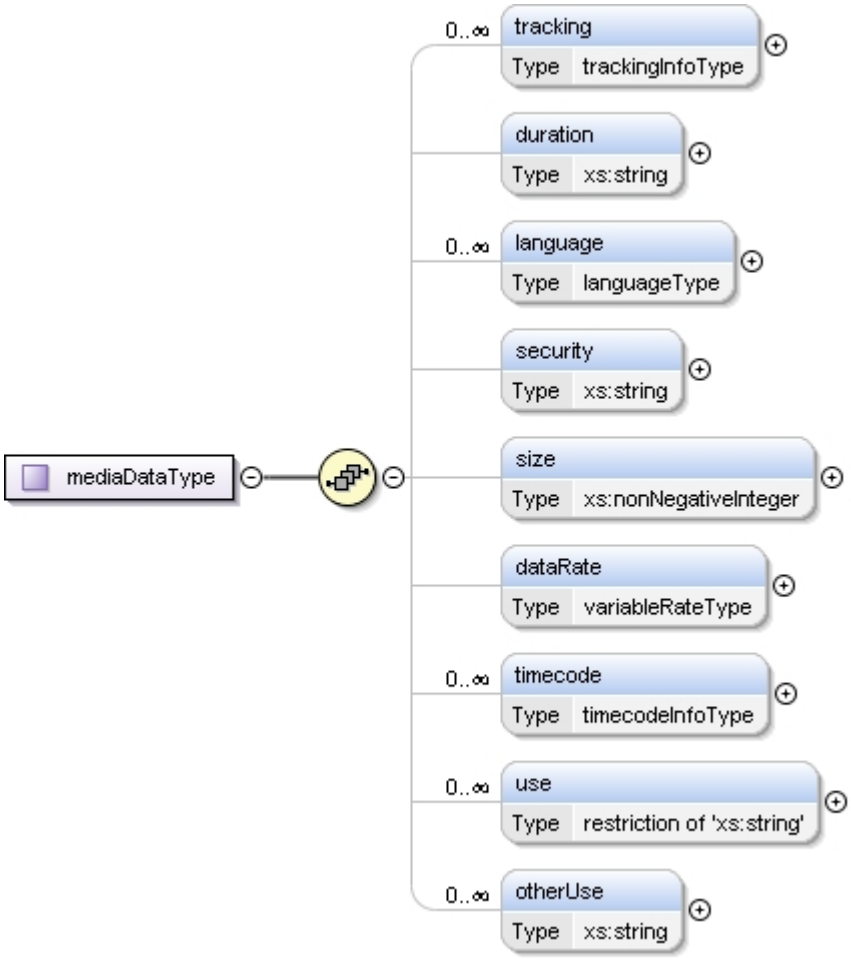
```
<xs:complexType name="fileDataType">
  <xs:annotation>
    <xs:documentation>A type for describing technical characteristics of a video file.</xs:documentation>
  </xs:annotation>
  <xs:complexContent>
    <xs:extension base="mediaDataType">
      <xs:sequence>
        <xs:element name="bitsPerSample" type="xs:int" minOccurs="0" maxOccurs="unbounded">
          <xs:annotation>
            <xs:documentation>The number of bits of sample depth, e.g., 8, 24, etc.</xs:documentation>
          </xs:annotation>
        </xs:element>
        <xs:element name="byteOrder" minOccurs="0" maxOccurs="unbounded">
          <xs:annotation>
            <xs:documentation>Order of bit significance in a byte from left to right i.e. 0-least-to-most, 1-
most-to-least, 2-mixed-endianess.</xs:documentation>
          </xs:annotation>
          <xs:simpleType>
            <xs:restriction base="xs:int">
              <xs:enumeration value="0"/>
              <xs:enumeration value="1"/>
              <xs:enumeration value="2"/>
            </xs:restriction>
          </xs:simpleType>
        </xs:element>
        <xs:element name="color" minOccurs="0">
          <xs:annotation>
            <xs:documentation>Presented color of the digital video file. Use Other if none of the preceding
values pertains and clarify the color in the otherColor element</xs:documentation>
          </xs:annotation>
          <xs:simpleType>
            <xs:restriction base="xs:string">
              <xs:enumeration value="B&W"/>
              <xs:enumeration value="Color"/>
              <xs:enumeration value="Grayscale"/>
              <xs:enumeration value="B&W with grayscale sequences"/>
              <xs:enumeration value="B&W with color sequences"/>
              <xs:enumeration value="Grayscale with B&W sequences"/>
              <xs:enumeration value="Grayscale with color sequences"/>
              <xs:enumeration value="Color with B&W sequences"/>
              <xs:enumeration value="Color with grayscale sequences"/>
              <xs:enumeration value="Other"/>
            </xs:restriction>
          </xs:simpleType>
        </xs:element>
        <xs:element name="otherColor" type="xs:string" minOccurs="0" maxOccurs="1">
```

```
          <xs:annotation>
            <xs:documentation>Denotes a use not contained in the allowed values set if Other is indicated in
the color element.</xs:documentation>
          </xs:annotation>
        </xs:element>
        <xs:element name="messageDigest" type="messageDigestType" minOccurs="0" maxOccurs="unbounded"/>
        <xs:choice minOccurs="0" maxOccurs="unbounded">
          <xs:element name="compression" type="compressionType" minOccurs="0" maxOccurs="unbounded"/>
          <xs:element name="track" type="trackDataType" minOccurs="0" maxOccurs="unbounded"/>
        </xs:choice>
        <xs:element name="dataRateUnit" type="xs:string" minOccurs="0" maxOccurs="unbounded">
          <xs:annotation>
            <xs:documentation>Data rate unit of a digital video file.</xs:documentation>
          </xs:annotation>
        </xs:element>
        <xs:element name="dataRateMode" minOccurs="0" maxOccurs="unbounded">
          <xs:annotation>
            <xs:documentation>Mode of the data rate in a digital video file.</xs:documentation>
          </xs:annotation>
          <xs:simpleType>
            <xs:restriction base="xs:string">
              <xs:enumeration value="Fixed"/>
              <xs:enumeration value="Variable"/>
            </xs:restriction>
          </xs:simpleType>
        </xs:element>
        <xs:element name="frame" type="frameType" minOccurs="0"/>
        <xs:element name="frameRate" type="variableRateType" minOccurs="0">
          <xs:annotation>
            <xs:documentation>The number of frames per second at which the video source item was digitized.
</xs:documentation>
          </xs:annotation>
        </xs:element>
        <xs:element name="sampleRate" type="variableRateType" minOccurs="0"/>
        <xs:element name="location" minOccurs="0" maxOccurs="unbounded">
          <xs:annotation>
            <xs:documentation>Location of the referenced file</xs:documentation>
          </xs:annotation>
          <xs:complexType>
            <xs:simpleContent>
              <xs:extension base="xs:string">
                <xs:attribute name="type" use="required">
                  <xs:simpleType>
                    <xs:restriction base="xs:string">
                      <xs:enumeration value="URN"/>
                      <xs:enumeration value="URL"/>
                      <xs:enumeration value="PURL"/>
                      <xs:enumeration value="HANDLE"/>
                      <xs:enumeration value="DOI"/>
                      <xs:enumeration value="OTHER"/>
                    </xs:restriction>
                  </xs:simpleType>
                </xs:attribute>
                <xs:attribute name="otherType" type="xs:string" use="optional"/>
              </xs:extension>
            </xs:simpleContent>
          </xs:complexType>
        </xs:element>
        <xs:element name="format" type="formatType" minOccurs="0" maxOccurs="unbounded"/>
        <xs:element name="sampling" type="xs:string" minOccurs="0" maxOccurs="unbounded">
          <xs:annotation>
            <xs:documentation>sThe video sampling format (in terms of luminance and
                                                                chrominance), e.g., 4:2:0, 4:2:2, 2:4:4, etc.
</xs:documentation>
          </xs:annotation>
        </xs:element>
        <xs:element name="signalFormat" type="xs:string" minOccurs="0" maxOccurs="unbounded">
          <xs:annotation>
            <xs:documentation>The signal format of a video source item e.g. NTSC, PAL, SECAM.
</xs:documentation>
          </xs:annotation>
        </xs:element>
        <xs:element name="sound" minOccurs="0" maxOccurs="unbounded">
          <xs:annotation>
            <xs:documentation>Indicator of the presence of sound in the video file. If
                                                                the value "yes" is selected, then the video
file will also be associated
                                                                with an instance of audioMD (audio metadata).
</xs:documentation>
          </xs:annotation>
```

```
          <xs:simpleType>
            <xs:restriction base="xs:string">
              <xs:enumeration value="Yes"/>
              <xs:enumeration value="No"/>
            </xs:restriction>
          </xs:simpleType>
        </xs:element>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

[top]

Complex Type mediaDataType

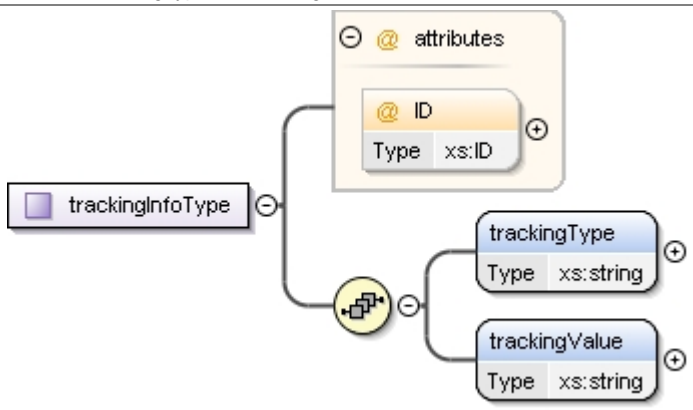
Namespace	http://www.loc.gov/videoMD/
Diagram	
Used by	Complex Types **fileDataType**, **trackDataType**
Model	**tracking*** , **duration{0,1}** , **language*** , **security{0,1}** , **size{0,1}** , **dataRate{0,1}** , **timecode*** , **use*** , **otherUse***
Children	**dataRate**, **duration**, **language**, **otherUse**, **security**, **size**, **timecode**, **tracking**, **use**
Source	


```
<xs:complexType name="mediaDataType">
  <xs:sequence>
    <xs:element name="tracking" type="trackingInfoType" minOccurs="0" maxOccurs="unbounded"/>
    <xs:element name="duration" type="xs:string" minOccurs="0">
      <xs:annotation>
        <xs:documentation>Elapsed time of the entire file, expressed using ISO 8601
                                                syntax; see http://www.w3.org/TR/NOTE-datetime.
</xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="language" type="languageType" minOccurs="0" maxOccurs="unbounded"/>
    <xs:element name="security" type="xs:string" minOccurs="0">
      <xs:annotation>
        <xs:documentation>Type of security applied to a digital video file e.g. password, encryption, hidden,
etc....</xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="size" type="xs:nonNegativeInteger" minOccurs="0"/>
    <xs:element name="dataRate" type="variableRateType" minOccurs="0">
      <xs:annotation>
        <xs:documentation>Data rate of the audio in an MPEG or other compressed file expressed in mbps, e.g.,
8, 12, 15, etc.</xs:documentation>
```

```
      </xs:annotation>
    </xs:element>
    <xs:element name="timecode" type="timecodeInfoType" minOccurs="0" maxOccurs="unbounded"/>
    <xs:element name="use" minOccurs="0" maxOccurs="unbounded">
      <xs:annotation>
        <xs:documentation>Use of the digital video file, e.g. Master, Service, Preview, etc..... Use Other if
none of the preceding values pertains and clarify the use in the otherUse element</xs:documentation>
      </xs:annotation>
      <xs:simpleType>
        <xs:restriction base="xs:string">
          <xs:enumeration value="Master"/>
          <xs:enumeration value="Service"/>
          <xs:enumeration value="Service_High"/>
          <xs:enumeration value="Service_Low"/>
          <xs:enumeration value="Preview"/>
          <xs:enumeration value="Other"/>
        </xs:restriction>
      </xs:simpleType>
    </xs:element>
    <xs:element name="otherUse" minOccurs="0" maxOccurs="unbounded" type="xs:string">
      <xs:annotation>
        <xs:documentation>Denotes a use not contained in the allowed values set if Other is indicated in the
use element.</xs:documentation>
      </xs:annotation>
    </xs:element>
  </xs:sequence>
</xs:complexType>
```

[top]

Complex Type trackingInfoType

Namespace	http://www.loc.gov/videoMD/
Definition	trackingInfoType: complexType for recording tracking information about a video source item. trackingInfoType has 1 attribute ID (XML ID) and 2 elements trackingType and trackingValue.
Diagram	
Used by	Elements **mediaDataType/tracking**, **physicalDataType/tracking**
Model	**trackingType** , **trackingValue**
Children	**trackingType**, **trackingValue**

Attributes

QName	Type	Fixed	Default	Use	Annotation
ID	**xs:ID**			optional	

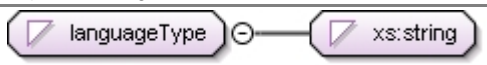
Source

```
<xs:complexType name="trackingInfoType">
  <xs:annotation>
    <xs:documentation>trackingInfoType: complexType for recording tracking information about
                                a video source item. trackingInfoType has 1 attribute ID (XML ID) and 2
elements trackingType and trackingValue.</xs:documentation>
  </xs:annotation>
  <xs:sequence>
    <xs:element name="trackingType" type="xs:string">
      <xs:annotation>
        <xs:documentation>The type of tracking code, e.g., system number, actual shelf numbers, bar-code,
etc..</xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="trackingValue" type="xs:string">
      <xs:annotation>
        <xs:documentation>Shelf number or other identifier for source, e.g., system number, actual shelf
numbers, etc..</xs:documentation>
      </xs:annotation>
    </xs:element>
  </xs:sequence>
```

```
  <xs:attribute name="ID" type="xs:ID"/>
</xs:complexType>
```

[top]

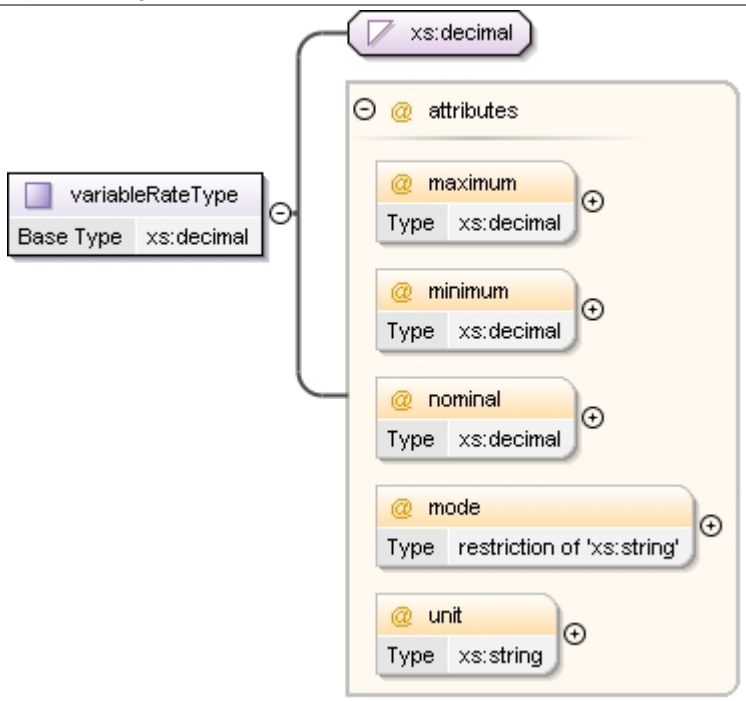
Simple Type languageType

Namespace	http://www.loc.gov/videoMD/
Diagram	
Type	restriction of **xs:string**
Facets	Pattern **([a-z]{3})?**
Used by	Element **mediaDataType/language**
Source	

```
<xs:simpleType name="languageType">
  <xs:restriction base="xs:string">
    <xs:pattern value="([a-z]{3})?"/>
  </xs:restriction>
</xs:simpleType>
```

[top]

Complex Type variableRateType

Namespace	http://www.loc.gov/videoMD/
Diagram	
Type	extension of **xs:decimal**
Used by	Elements **fileDataType/frameRate**, **fileDataType/sampleRate**, **mediaDataType/dataRate**, **trackDataType/frameRate**, **trackDataType/sampleRate**

Attributes

QName	Type	Fixed	Default	Use	Annotation
maximum	**xs:decimal**			optional	
minimum	**xs:decimal**			optional	
mode	restriction of **xs:string**			optional	Indicator that the rate of the video is fixed or variable.
nominal	**xs:decimal**			optional	
unit	**xs:string**			optional	

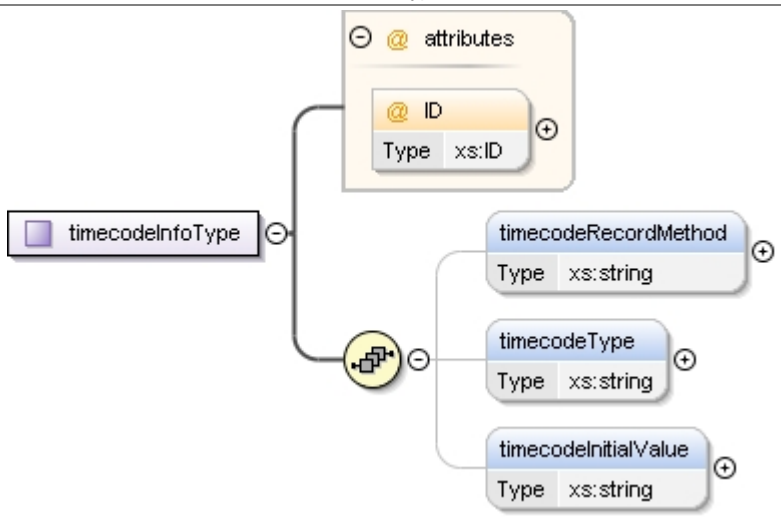
Source

```
<xs:complexType name="variableRateType">
  <xs:simpleContent>
    <xs:extension base="xs:decimal">
      <xs:attribute name="maximum" type="xs:decimal"/>
      <xs:attribute name="minimum" type="xs:decimal"/>
      <xs:attribute name="nominal" type="xs:decimal"/>
      <xs:attribute name="mode">
        <xs:annotation>
          <xs:documentation>Indicator that the rate of the video is fixed or variable.</xs:documentation>
        </xs:annotation>
        <xs:simpleType>
          <xs:restriction base="xs:string">
            <xs:enumeration value="Fixed"/>
```

```
            <xs:enumeration value="Variable"/>
          </xs:restriction>
        </xs:simpleType>
      </xs:attribute>
      <xs:attribute name="unit" type="xs:string"/>
    </xs:extension>
  </xs:simpleContent>
</xs:complexType>
```

[top]

Complex Type timecodeInfoType

Namespace	http://www.loc.gov/videoMD/
Definition	timecodeInfoType: Complex Type for recording tracking information about a video source item. timecodeInfoType has 1 attribute ID (XML ID) and 3 elements timecodeRecordMethod, timecodeType and timecodeInitialValue.
Diagram	
Used by	Elements **mediaDataType/timecode**, **physicalDataType/timecode**
Model	**timecodeRecordMethod{0,1}** , **timecodeType{0,1}** , **timecodeInitialValue{0,1}**
Children	**timecodeInitialValue**, **timecodeRecordMethod**, **timecodeType**

Attributes

QName	Type	Fixed	Default	Use	Annotation
ID	**xs:ID**			optional	

Source

```
<xs:complexType name="timecodeInfoType">
  <xs:annotation>
    <xs:documentation>timecodeInfoType: Complex Type for recording tracking information
                                about a video source item. timecodeInfoType has 1 attribute ID (XML ID) and 3
elements timecodeRecordMethod, timecodeType and timecodeInitialValue.</xs:documentation>
  </xs:annotation>
  <xs:sequence>
    <xs:element name="timecodeRecordMethod" type="xs:string" minOccurs="0">
      <xs:annotation>
        <xs:documentation>Method for recording timecode on the video source item</xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="timecodeType" type="xs:string" minOccurs="0">
      <xs:annotation>
        <xs:documentation>Type of timecode recorded on video source item, e.g., SMPTE dropframe, SMPTE
nondropframe, etc..</xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="timecodeInitialValue" type="xs:string" minOccurs="0">
      <xs:annotation>
        <xs:documentation>Starting value for timecode.</xs:documentation>
      </xs:annotation>
    </xs:element>
  </xs:sequence>
  <xs:attribute name="ID" type="xs:ID"/>
</xs:complexType>
```

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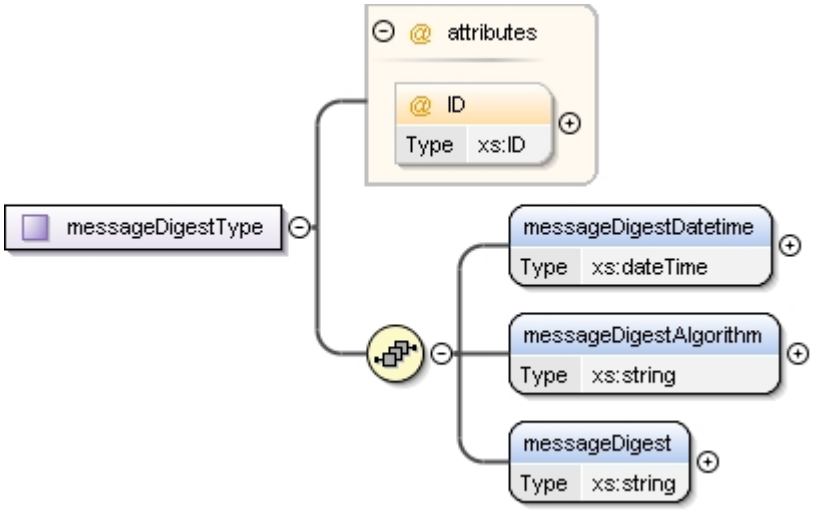
Complex Type messageDigestType

Namespace	http://www.loc.gov/videoMD/
Definition	messageDigestType: Complex Type for recording the type of messageDigest used for a digital video file. messageDigestType has 1 attribute ID (XML ID) and 3 elements messageDigestDatetime, messageDigestAlgorithm and messageDigest.

Diagram	
Used by	Element **fileDataType/messageDigest**
Model	**messageDigestDatetime** , **messageDigestAlgorithm** , **messageDigest**
Children	**messageDigest**, **messageDigestAlgorithm**, **messageDigestDatetime**

Attributes

QName	Type	Fixed	Default	Use	Annotation
ID	**xs:ID**			optional	

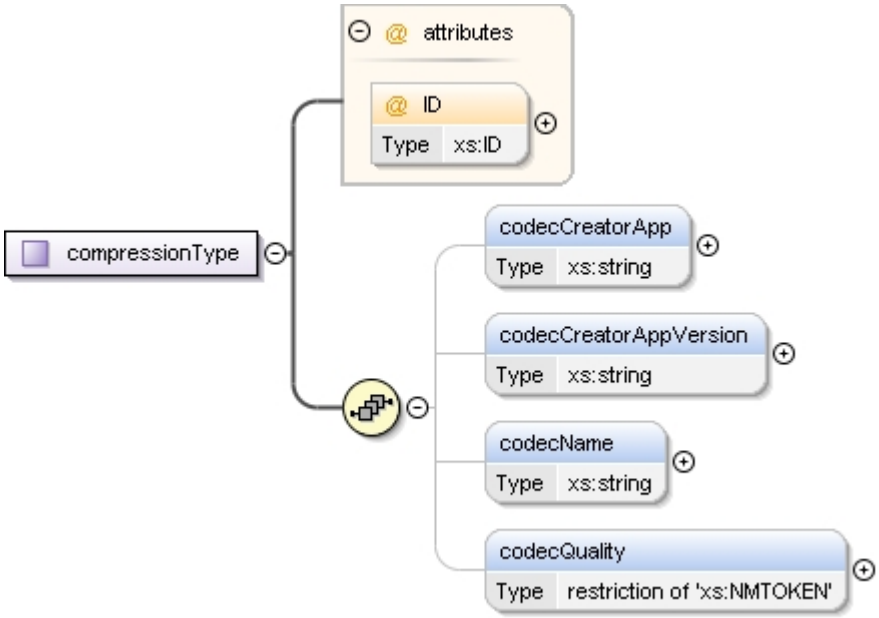
Source

```
<xs:complexType name="messageDigestType">
  <xs:annotation>
    <xs:documentation>messageDigestType: Complex Type for recording the type of
                                messageDigest used for a digital video file. messageDigestType has 1
attribute ID (XML ID) and 3
                                elements messageDigestDatetime, messageDigestAlgorithm and messageDigest.
</xs:documentation>
  </xs:annotation>
  <xs:sequence>
    <xs:element name="messageDigestDatetime" type="xs:dateTime">
      <xs:annotation>
        <xs:documentation>The datetime when the messageDigest was calculated and applied</xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="messageDigestAlgorithm" type="xs:string">
      <xs:annotation>
        <xs:documentation>Type of messageDigest used.</xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="messageDigest" type="xs:string">
      <xs:annotation>
        <xs:documentation>The messageDigest value.</xs:documentation>
      </xs:annotation>
    </xs:element>
  </xs:sequence>
  <xs:attribute name="ID" type="xs:ID"/>
</xs:complexType>
```

[top]

Complex Type compressionType

Namespace	http://www.loc.gov/videoMD/
Definition	compressionType: complexType for recording the type of compression used for a digital video file. compressionType has 1 attribute ID (XML ID)and 4 elements codecCreatorApp, codecCreatorAppVersion, codecName and codecQuality.

Diagram	
Used by	Element **fileDataType/compression**
Model	**codecCreatorApp{0,1}** , **codecCreatorAppVersion{0,1}** , **codecName{0,1}** , **codecQuality{0,1}**
Children	**codecCreatorApp**, **codecCreatorAppVersion**, **codecName**, **codecQuality**

Attributes

QName	Type	Fixed	Default	Use	Annotation
ID	**xs:ID**			optional	

Source

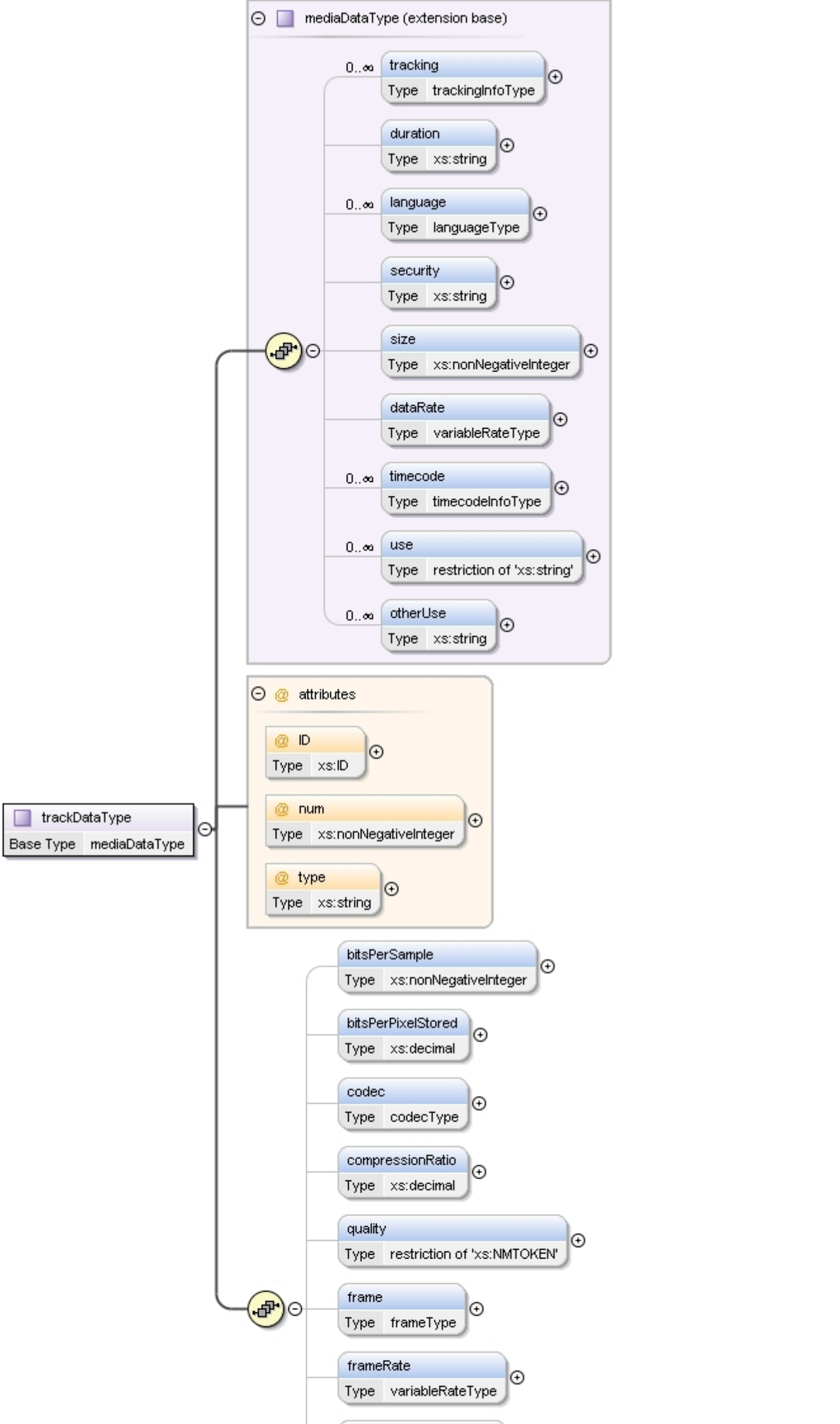
```
<xs:complexType name="compressionType">
  <xs:annotation>
    <xs:documentation>compressionType: complexType for recording the type of compression
                                  used for a digital video file. compressionType has 1 attribute ID (XML ID)and
4 elements codecCreatorApp, codecCreatorAppVersion, codecName and codecQuality.</xs:documentation>
  </xs:annotation>
  <xs:sequence>
    <xs:element name="codecCreatorApp" type="xs:string" minOccurs="0">
      <xs:annotation>
        <xs:documentation>Name of the creator of the compression application e.g. Adobe Premiere, etc..
</xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="codecCreatorAppVersion" type="xs:string" minOccurs="0">
      <xs:annotation>
        <xs:documentation>Version of the compression application e.g. 6.0, etc..</xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="codecName" type="xs:string" minOccurs="0">
      <xs:annotation>
        <xs:documentation>Name of the compression algorithm used e.g. MPEG, etc..</xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="codecQuality" minOccurs="0">
      <xs:annotation>
        <xs:documentation>Impact of the compression on quality e.g. lossless or lossy.</xs:documentation>
      </xs:annotation>
      <xs:simpleType>
        <xs:restriction base="xs:NMTOKEN">
          <xs:enumeration value="lossless"/>
          <xs:enumeration value="lossy"/>
        </xs:restriction>
      </xs:simpleType>
    </xs:element>
  </xs:sequence>
  <xs:attribute name="ID" type="xs:ID"/>
</xs:complexType>
```

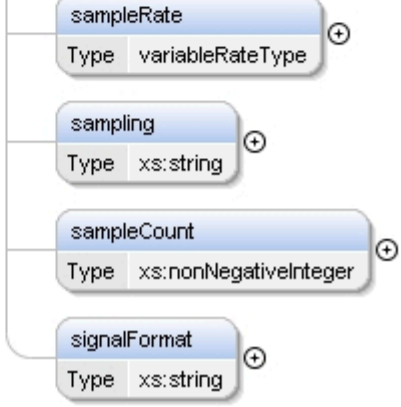
[top]

Complex Type **trackDataType**

Namespace	http://www.loc.gov/videoMD/

Diagram	


mediaDataType (extension base)
0..∞ tracking
Type trackingInfoType
duration
Type xs:string
0..∞ language
Type languageType
security
Type xs:string
size
Type xs:nonNegativeInteger
dataRate
Type variableRateType
0..∞ timecode
Type timecodeInfoType
0..∞ use
Type restriction of 'xs:string'
0..∞ otherUse
Type xs:string
@ attributes
@ ID
Type xs:ID
@ num
Type xs:nonNegativeInteger
@ type
Type xs:string
trackDataType
Base Type mediaDataType
bitsPerSample
Type xs:nonNegativeInteger
bitsPerPixelStored
Type xs:decimal
codec
Type codecType
compressionRatio
Type xs:decimal
quality
Type restriction of 'xs:NMTOKEN'
frame
Type frameType
frameRate
Type variableRateType



Type	extension of **mediaDataType**
Type hierarchy	**mediaDataType** ↳ **trackDataType**
Used by	Element **fileDataType/track**
Model	**tracking*** , **duration{0,1}** , **language*** , **security{0,1}** , **size{0,1}** , **dataRate{0,1}** , **timecode*** , **use*** , **otherUse*** , **bitsPerSample{0,1}** , **bitsPerPixelStored{0,1}** , **codec{0,1}** , **compressionRatio{0,1}** , **quality{0,1}** , **frame{0,1}** , **frameRate{0,1}** , **sampleRate{0,1}** , **sampling{0,1}** , **sampleCount{0,1}** , **signalFormat{0,1}**
Children	**bitsPerPixelStored**, **bitsPerSample**, **codec**, **compressionRatio**, **dataRate**, **duration**, **frame**, **frameRate**, **language**, **otherUse**, **quality**, **sampleCount**, **sampleRate**, **sampling**, **security**, **signalFormat**, **size**, **timecode**, **tracking**, **use**

Attributes

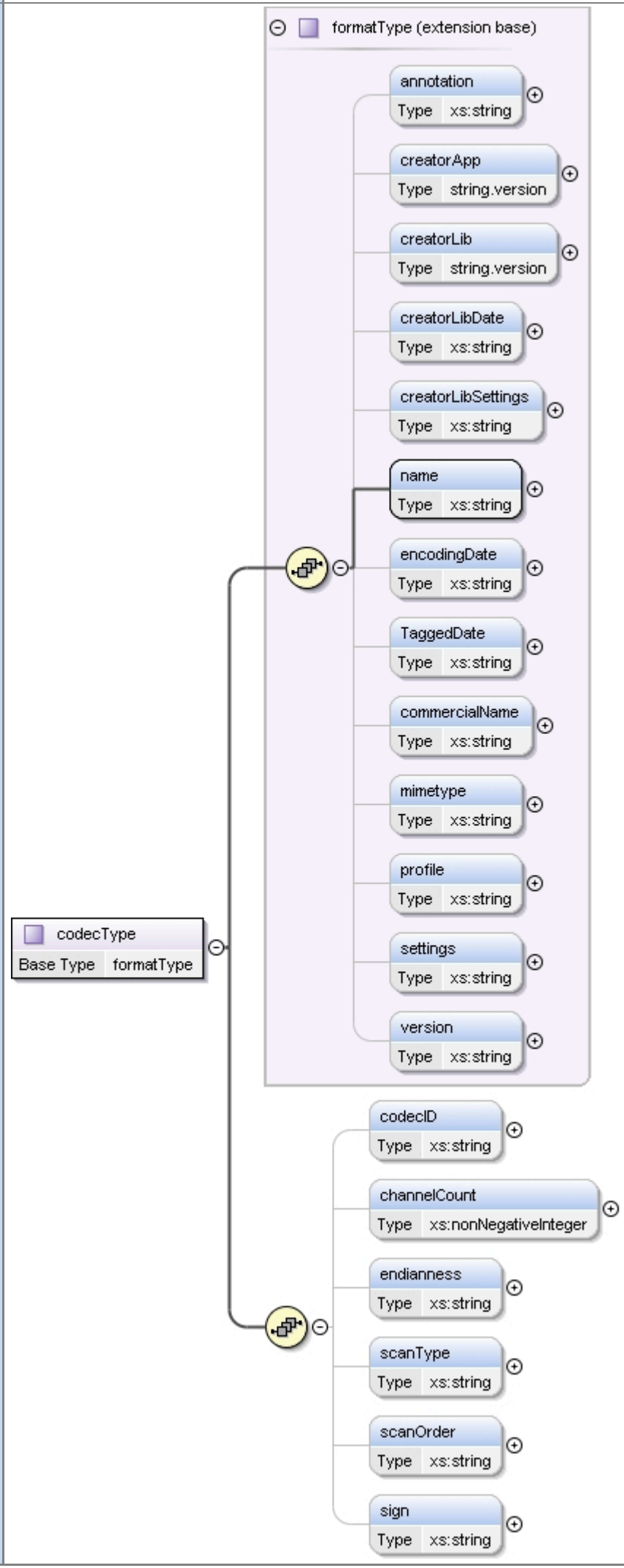
QName	Type	Fixed	Default	Use	Annotation
ID	**xs:ID**			optional	
num	**xs:nonNegativeInteger**			optional	
type	**xs:string**			optional	

Source

```
<xs:complexType name="trackDataType">
  <xs:complexContent>
    <xs:extension base="mediaDataType">
      <xs:sequence>
        <xs:element name="bitsPerSample" type="xs:nonNegativeInteger" minOccurs="0">
          <xs:annotation>
            <xs:documentation>The size of a digital video sample in bits.</xs:documentation>
          </xs:annotation>
        </xs:element>
        <xs:element name="bitsPerPixelStored" type="xs:decimal" minOccurs="0"/>
        <xs:element name="codec" type="codecType" minOccurs="0"/>
        <xs:element name="compressionRatio" type="xs:decimal" minOccurs="0"/>
        <xs:element name="quality" minOccurs="0">
          <xs:simpleType>
            <xs:restriction base="xs:NMTOKEN">
              <xs:enumeration value="lossless"/>
              <xs:enumeration value="lossy"/>
              <xs:enumeration value="lossy_lossless"/>
            </xs:restriction>
          </xs:simpleType>
        </xs:element>
        <xs:element name="frame" type="frameType" minOccurs="0"/>
        <xs:element name="frameRate" type="variableRateType" minOccurs="0"/>
        <xs:element name="sampleRate" type="variableRateType" minOccurs="0"/>
        <xs:element name="sampling" type="xs:string" minOccurs="0">
          <xs:annotation>
            <xs:documentation>sThe video sampling format used in a digital video
                                                    file. (in terms of luminance and
chrominance), e.g., 4:2:0, 4:2:2,
                                                    2:4:4, etc.)</xs:documentation>
          </xs:annotation>
        </xs:element>
        <xs:element name="sampleCount" type="xs:nonNegativeInteger" minOccurs="0"/>
        <xs:element name="signalFormat" type="xs:string" minOccurs="0">
          <xs:annotation>
            <xs:documentation>The signal format of a video source item e.g. NTSC, PAL, SECAM.
</xs:documentation>
          </xs:annotation>
        </xs:element>
      </xs:sequence>
      <xs:attribute name="ID" type="xs:ID"/>
      <xs:attribute name="num" type="xs:nonNegativeInteger"/>
      <xs:attribute name="type" type="xs:string"/>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

[top]

Complex Type codecType

Namespace	http://www.loc.gov/videoMD/
Diagram	

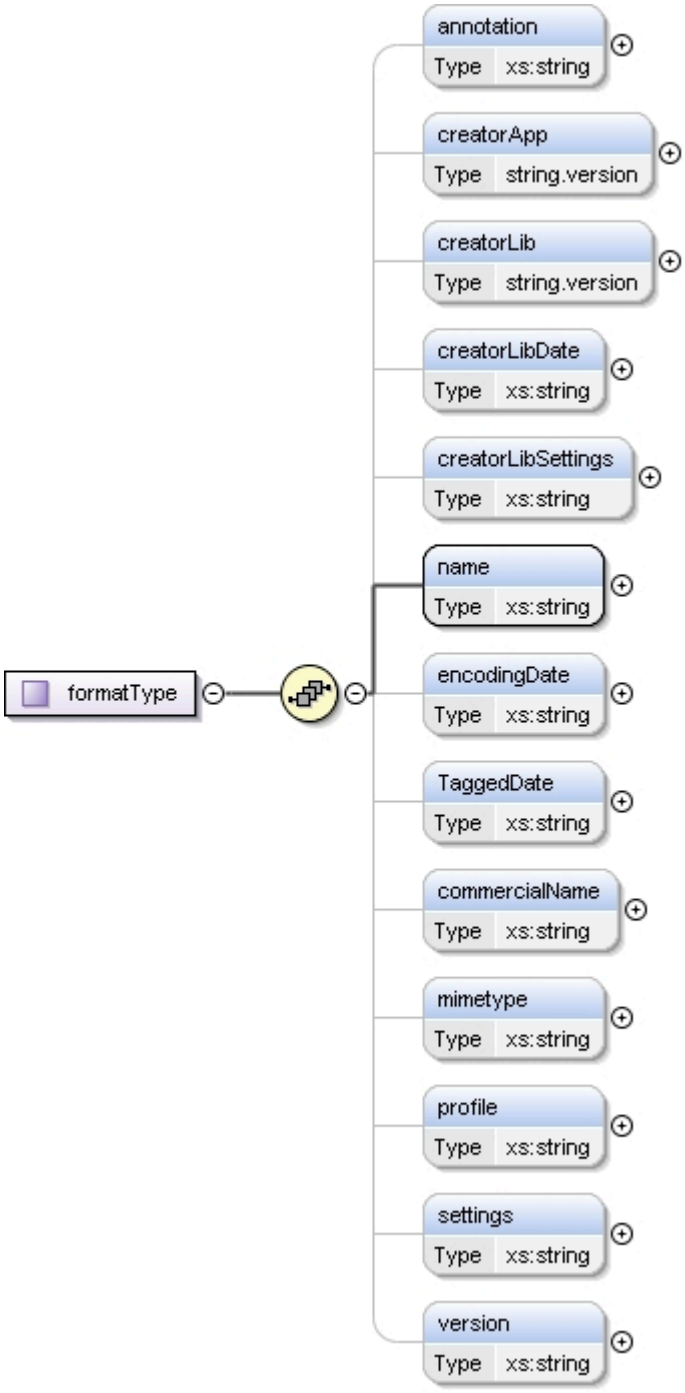
Type	extension of **formatType**
Type hierarchy	**formatType** ↰ **codecType**
Used by	Element **trackDataType/codec**
Model	**annotation{0,1}** , **creatorApp{0,1}** , **creatorLib{0,1}** , **creatorLibDate{0,1}** , **creatorLibSettings{0,1}** , **name** , **encodingDate{0,1}** , **TaggedDate{0,1}** , **commercialName{0,1}** , **mimetype{0,1}** , **profile{0,1}** , **settings{0,1}** , **version{0,1}** , **codecID{0,1}** , **channelCount{0,1}** , **endianness{0,1}** , **scanType{0,1}** , **scanOrder{0,1}** , **sign{0,1}**
Children	**TaggedDate**, **annotation**, **channelCount**, **codecID**, **commercialName**, **creatorApp**, **creatorLib**, **creatorLibDate**, **creatorLibSettings**, **encodingDate**, **endianness**, **mimetype**, **name**, **profile**, **scanOrder**, **scanType**, **settings**, **sign**, **version**
Source	

```
<xs:complexType name="codecType">
  <xs:complexContent>
    <xs:extension base="formatType">
      <xs:sequence>
        <xs:element name="codecID" type="xs:string" minOccurs="0"/>
        <xs:element name="channelCount" type="xs:nonNegativeInteger" minOccurs="0"/>
        <xs:element name="endianness" type="xs:string" minOccurs="0"/>
        <xs:element name="scanType" type="xs:string" minOccurs="0"/>
        <xs:element name="scanOrder" type="xs:string" minOccurs="0"/>
        <xs:element name="sign" type="xs:string" minOccurs="0"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

[top]

Complex Type formatType

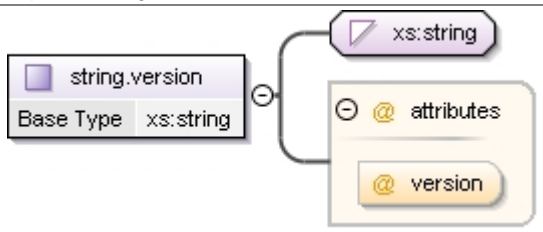
Namespace	http://www.loc.gov/videoMD/

Diagram	
Used by	Complex Type **codecType** Element **fileDataType/format**
Model	**annotation{0,1}** , **creatorApp{0,1}** , **creatorLib{0,1}** , **creatorLibDate{0,1}** , **creatorLibSettings{0,1}** , **name** , **encodingDate{0,1}** , **TaggedDate{0,1}** , **commercialName{0,1}** , **mimetype{0,1}** , **profile{0,1}** , **settings{0,1}** , **version{0,1}**
Children	**TaggedDate**, **annotation**, **commercialName**, **creatorApp**, **creatorLib**, **creatorLibDate**, **creatorLibSettings**, **encodingDate**, **mimetype**, **name**, **profile**, **settings**, **version**
Source	

```
<xs:complexType name="formatType">
  <xs:sequence>
    <xs:element name="annotation" type="xs:string" minOccurs="0"/>
    <xs:element name="creatorApp" type="string.version" minOccurs="0"/>
    <xs:element name="creatorLib" type="string.version" minOccurs="0"/>
    <xs:element name="creatorLibDate" type="xs:string" minOccurs="0"/>
    <xs:element name="creatorLibSettings" type="xs:string" minOccurs="0"/>
    <xs:element name="name" type="xs:string"/>
    <xs:element name="encodingDate" type="xs:string" minOccurs="0"/>
    <xs:element name="TaggedDate" type="xs:string" minOccurs="0"/>
    <xs:element name="commercialName" type="xs:string" minOccurs="0"/>
    <xs:element name="mimetype" type="xs:string" minOccurs="0"/>
    <xs:element name="profile" type="xs:string" minOccurs="0"/>
    <xs:element name="settings" type="xs:string" minOccurs="0"/>
    <xs:element name="version" type="xs:string" minOccurs="0"/>
  </xs:sequence>
</xs:complexType>
```

[top]

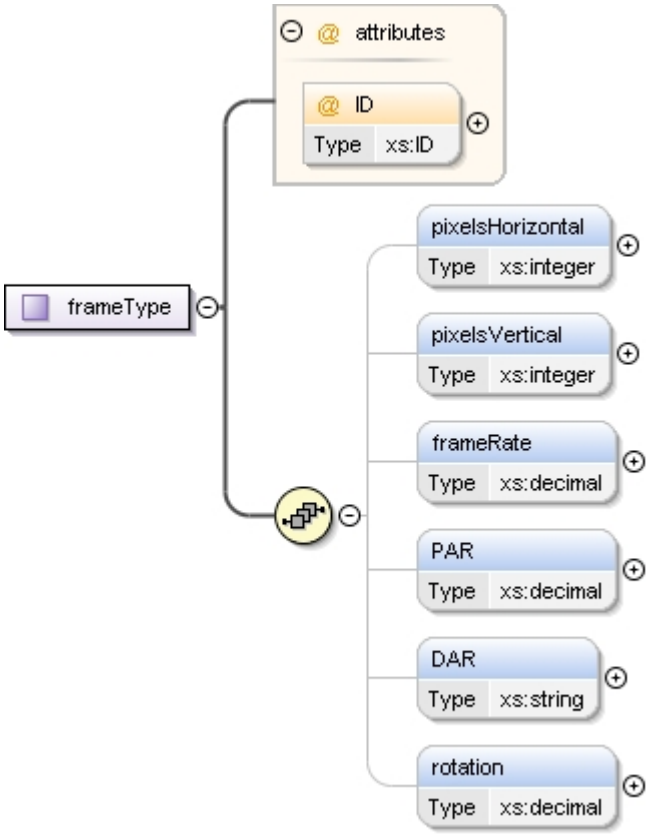
Complex Type string.version

Namespace	http://www.loc.gov/videoMD/
Diagram	
Type	extension of **xs:string**
Used by	Elements **formatType/creatorApp**, **formatType/creatorLib**
Attributes	QName: version; Type: ; Fixed: ; Default: ; Use: optional; Annotation:

Source	`<xs:complexType name="string.version">`
	`  <xs:simpleContent>`
	`  <xs:extension base="xs:string">`
	`  <xs:attribute name="version"/>`
	`  </xs:extension>`
	`  </xs:simpleContent>`
	`</xs:complexType>`

[top]

Complex Type **frameType**

Namespace	http://www.loc.gov/videoMD/
Definition	frameType: Complex Type for recording the size of a frame in a digital video file. frameType has 1 attribute ID (XML ID)and 6 elements pixelsHorizontal, pixelsVertical, frameRate, PAR, DAR and rotation.
Diagram	
Used by	Elements **fileDataType/frame**, **trackDataType/frame**, **videoInfoType/frame**
Model	**pixelsHorizontal{0,1}** , **pixelsVertical{0,1}** , **frameRate{0,1}** , **PAR{0,1}** , **DAR{0,1}** , **rotation{0,1}**
Children	**DAR**, **PAR**, **frameRate**, **pixelsHorizontal**, **pixelsVertical**, **rotation**
Attributes	QName: ID; Type: **xs:ID**; Fixed: ; Default: ; Use: optional; Annotation:

Source	`<xs:complexType name="frameType">`
	`  <xs:annotation>`
	`  <xs:documentation>frameType: Complex Type for recording the size of a frame in a digital`
	`  video file. frameType has 1 attribute ID (XML ID)and 6 elements`
	`pixelsHorizontal, pixelsVertical, frameRate, PAR, DAR and rotation.</xs:documentation>`
	`  </xs:annotation>`
	`  <xs:sequence>`
	`  <xs:element name="pixelsHorizontal" type="xs:integer" minOccurs="0">`
	`  <xs:annotation>`

```
        <xs:documentation>The horizontal dimension of a frame in pixels.</xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="pixelsVertical" type="xs:integer" minOccurs="0">
      <xs:annotation>
        <xs:documentation>The vertical dimension of a frame in pixels.</xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="frameRate" type="xs:decimal" minOccurs="0">
      <xs:annotation>
        <xs:documentation>The rate of frames displayed in one second (or average rate of frames per second in
the case of variable frame-rate). Present as a ratio of time base over frame duration, such as 30000/1001 or
as a decimal, such as 29.970 .</xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="PAR" type="xs:decimal" minOccurs="0">
      <xs:annotation>
        <xs:documentation>Pixel aspect ratio (present as a ratio or decimal).</xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="DAR" type="xs:string" minOccurs="0">
      <xs:annotation>
        <xs:documentation>Display aspect ratio (present as a ratio or decimal such as 4/3 or 6/9 or 1.33333).
</xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="rotation" type="xs:decimal" minOccurs="0">
      <xs:annotation>
        <xs:documentation>The rotation in a decimal value.</xs:documentation>
      </xs:annotation>
    </xs:element>
  </xs:sequence>
  <xs:attribute name="ID" type="xs:ID"/>
</xs:complexType>
```

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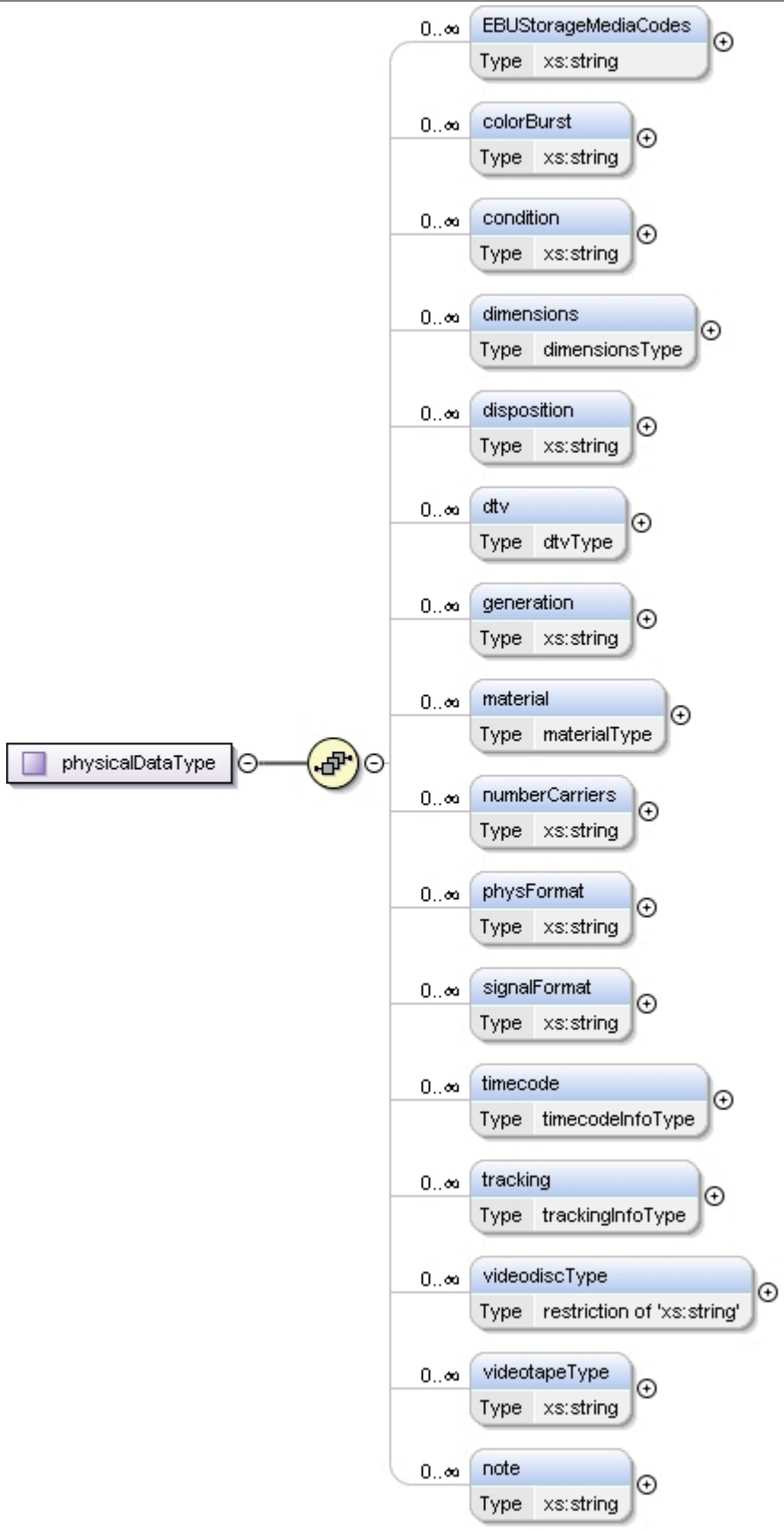
Complex Type physicalDataType

Namespace	http://www.loc.gov/videoMD/

Diagram	
Used by	Element **videoType/physicalData**
Model	**EBUStorageMediaCodes*** , **colorBurst*** , **condition*** , **dimensions*** , **disposition*** , **dtv*** , **generation*** , **material*** , **numberCarriers*** , **physFormat*** , **signalFormat*** , **timecode*** , **tracking*** , **videodiscType*** , **videotapeType*** , **note***
Children	**EBUStorageMediaCodes**, **colorBurst**, **condition**, **dimensions**, **disposition**, **dtv**, **generation**, **material**, **note**, **numberCarriers**, **physFormat**, **signalFormat**, **timecode**, **tracking**, **videodiscType**, **videotapeType**
Source	

```
<xs:complexType name="physicalDataType">
  <xs:sequence>
    <xs:element name="EBUStorageMediaCodes" type="xs:string" minOccurs="0" maxOccurs="unbounded">
      <xs:annotation>
        <xs:documentation>The EBU Storage Media Codes for the physical media. See
http://www.ebu.ch/metadata/cs/ebu_StorageMediaTypeCodeCS.xml and
http://www.ebu.ch/metadata/cs/web/ebu_StorageMediaTypeCodeCS_p.xml.htm</xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="colorBurst" type="xs:string" minOccurs="0" maxOccurs="unbounded">
      <xs:annotation>
        <xs:documentation>Indicator of the presence or absence of color burst signal in a video source item.
```

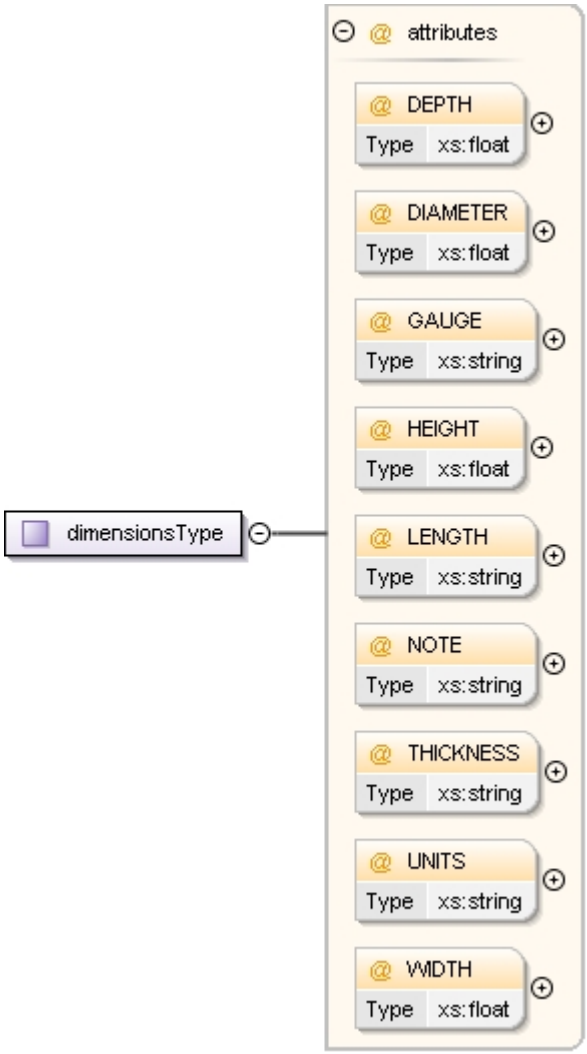
```
</xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="condition" type="xs:string" minOccurs="0" maxOccurs="unbounded">
      <xs:annotation>
        <xs:documentation>The physical condition of a video item.</xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="dimensions" type="dimensionsType" minOccurs="0" maxOccurs="unbounded"/>
    <xs:element name="disposition" type="xs:string" minOccurs="0" maxOccurs="unbounded">
      <xs:annotation>
        <xs:documentation>The disposition of a video source item.</xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="dtv" type="dtvType" minOccurs="0" maxOccurs="unbounded"/>
    <xs:element name="generation" type="xs:string" minOccurs="0" maxOccurs="unbounded">
      <xs:annotation>
        <xs:documentation>The generation of a video source item.</xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="material" type="materialType" minOccurs="0" maxOccurs="unbounded"/>
    <xs:element name="numberCarriers" type="xs:string" minOccurs="0" maxOccurs="unbounded">
      <xs:annotation>
        <xs:documentation>The number of containers holding a video source item.</xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="physFormat" type="xs:string" minOccurs="0" maxOccurs="unbounded">
      <xs:annotation>
        <xs:documentation>The physical format of the video item. e.g. reel-to-reel tape, 1/4 inch cassette,
etc...</xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="signalFormat" type="xs:string" minOccurs="0" maxOccurs="unbounded">
      <xs:annotation>
        <xs:documentation>The signal format of a video source item e.g. NTSC, PAL, SECAM.</xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="timecode" type="timecodeInfoType" minOccurs="0" maxOccurs="unbounded"/>
    <xs:element name="tracking" type="trackingInfoType" minOccurs="0" maxOccurs="unbounded"/>
    <xs:element name="videodiscType" minOccurs="0" maxOccurs="unbounded">
      <xs:annotation>
        <xs:documentation>The type of videodisc used for a video source item.</xs:documentation>
      </xs:annotation>
      <xs:simpleType>
        <xs:restriction base="xs:string">
          <xs:enumeration value="CLV"/>
          <xs:enumeration value="CAV"/>
        </xs:restriction>
      </xs:simpleType>
    </xs:element>
    <xs:element name="videotapeType" type="xs:string" minOccurs="0" maxOccurs="unbounded">
      <xs:annotation>
        <xs:documentation>The type of videotape used for a video source item.</xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="note" type="xs:string" minOccurs="0" maxOccurs="unbounded">
      <xs:annotation>
        <xs:documentation>Additional information or comments about the video file.</xs:documentation>
      </xs:annotation>
    </xs:element>
  </xs:sequence>
</xs:complexType>
```

[top]

Complex Type dimensionsType

Namespace	http://www.loc.gov/videoMD/
Definition	dimensionsType: Complex Type for recording the dimensions of an object. dimensionsType has the following attributes: 1. DEPTH: the depth as a floating point number; 2. DIAMETER: The diameter of a circular item as a floating point number; 3. GAUGE: The width of the medium unwound (e.g. tape); 4. HEIGHT: The height as a floating point number; 5. LENGTH: The length of the medium unwound (e.g. tape); 6. NOTE: Miscellaneous information about the dimensions; 7. THICKNESS: the thickness of the medium unwound (e.g. tape); 8. UNITS: the unit of measurement; 9. WIDTH: the width as a floating point number.

Diagram



Used by

Elements **physicalDataType/dimensions**, **videoInfoType/dimensions**

Attributes

QName	Type	Fixed	Default	Use	Annotation
DEPTH	**xs:float**			optional	The depth of the object in the unit of measure indicated in dimensions_unit, e.g., 7, 12.
DIAMETER	**xs:float**			optional	The diameter of any circular object expressed in the unit of measure indicated in dimensions_unit, e.g., 3.5, 5, 7.
GAUGE	**xs:string**			optional	Gauge or width of source tape, including indication of unit of measure, e.g., 8 mm, 0.5 inch, 0.25 inch, etc..
HEIGHT	**xs:float**			optional	Height of the object in the unit of measure indicated in dimensions_unit, e.g., 23.
LENGTH	**xs:string**			optional	Length of source open-reel tape recording, including indication of unit of measure, e.g., 700 feet, 1200 feet, etc..
NOTE	**xs:string**			optional	Desciption of odd-shaped objects that cannot be described using the standard dimensions fields.
THICKNESS	**xs:string**			optional	The thickness of the medium unwound (e.g. tape)
UNITS	**xs:string**			optional	Unit of measurement of the source object, e.g., inches.
WIDTH	**xs:float**			optional	Width of any non-circular object expressed in the unit of measure indicated in dimensions_unit, e.g., 3.5, 5, 7.

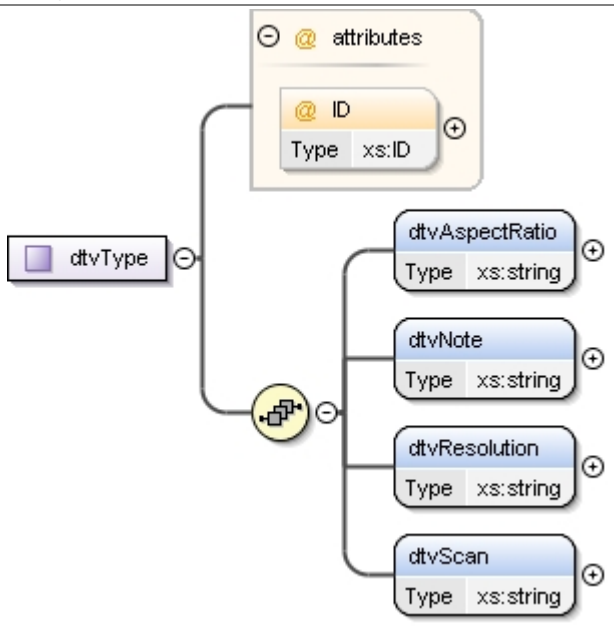
Source

```
<xs:complexType name="dimensionsType">
  <xs:annotation>
    <xs:documentation>dimensionsType: Complex Type for recording the dimensions of an
                              object. dimensionsType has the following attributes:
                              1. DEPTH: the depth as a floating point number;
                              2. DIAMETER: The diameter of a circular item as a floating point number;
                              3. GAUGE: The width of the medium unwound (e.g. tape);
                              4. HEIGHT: The height as a floating point number;
                              5. LENGTH: The length of the medium unwound (e.g. tape);
                              6. NOTE: Miscellaneous information about the dimensions;
                              7. THICKNESS: the thickness of the medium unwound (e.g. tape);
                              8. UNITS: the unit of measurement;
                              9. WIDTH: the width as a floating point number.</xs:documentation>
  </xs:annotation>
  <xs:attribute name="DEPTH" type="xs:float">
    <xs:annotation>
      <xs:documentation>The depth of the object in the unit of measure indicated in dimensions_unit, e.g., 7,
12.</xs:documentation>
    </xs:annotation>
  </xs:attribute>
  <xs:attribute name="DIAMETER" type="xs:float">
    <xs:annotation>
      <xs:documentation>The diameter of any circular object expressed in the unit of measure indicated in
dimensions_unit, e.g., 3.5, 5, 7.</xs:documentation>
```

```
    </xs:annotation>
  </xs:attribute>
  <xs:attribute name="GAUGE" type="xs:string">
    <xs:annotation>
      <xs:documentation>Gauge or width of source tape, including indication of unit of measure, e.g., 8 mm,
0.5 inch, 0.25 inch, etc..</xs:documentation>
    </xs:annotation>
  </xs:attribute>
  <xs:attribute name="HEIGHT" type="xs:float">
    <xs:annotation>
      <xs:documentation>Height of the object in the unit of measure indicated in dimensions_unit, e.g., 23.
</xs:documentation>
    </xs:annotation>
  </xs:attribute>
  <xs:attribute name="LENGTH" type="xs:string">
    <xs:annotation>
      <xs:documentation>Length of source open-reel tape recording, including indication of unit of measure,
e.g., 700 feet, 1200 feet, etc..</xs:documentation>
    </xs:annotation>
  </xs:attribute>
  <xs:attribute name="NOTE" type="xs:string">
    <xs:annotation>
      <xs:documentation>Desciption of odd-shaped objects that cannot be described using the standard
dimensions fields.</xs:documentation>
    </xs:annotation>
  </xs:attribute>
  <xs:attribute name="THICKNESS" type="xs:string">
    <xs:annotation>
      <xs:documentation>The thickness of the medium unwound (e.g. tape)</xs:documentation>
    </xs:annotation>
  </xs:attribute>
  <xs:attribute name="UNITS" type="xs:string">
    <xs:annotation>
      <xs:documentation>Unit of measurement of the source object, e.g., inches.</xs:documentation>
    </xs:annotation>
  </xs:attribute>
  <xs:attribute name="WIDTH" type="xs:float">
    <xs:annotation>
      <xs:documentation>Width of any non-circular object expressed in the unit of measure indicated in
dimensions_unit, e.g., 3.5, 5, 7.</xs:documentation>
    </xs:annotation>
  </xs:attribute>
</xs:complexType>
```

[top]

Complex Type dtvType

Namespace	http://www.loc.gov/videoMD/
Definition	dtvType: complexType for recording Information about a high definition TV video source item. dtvType has 1 attribute ID (XML ID) and 4 elements dtvAspectRatio, dtvNote, dtvResolution and dtvScan.
Diagram	
Used by	Element **physicalDataType/dtv**
Model	**dtvAspectRatio** , **dtvNote** , **dtvResolution** , **dtvScan**
Children	**dtvAspectRatio**, **dtvNote**, **dtvResolution**, **dtvScan**

Attributes	QName	Type	Fixed	Default	Use	Annotation
	ID	**xs:ID**			optional	

Source

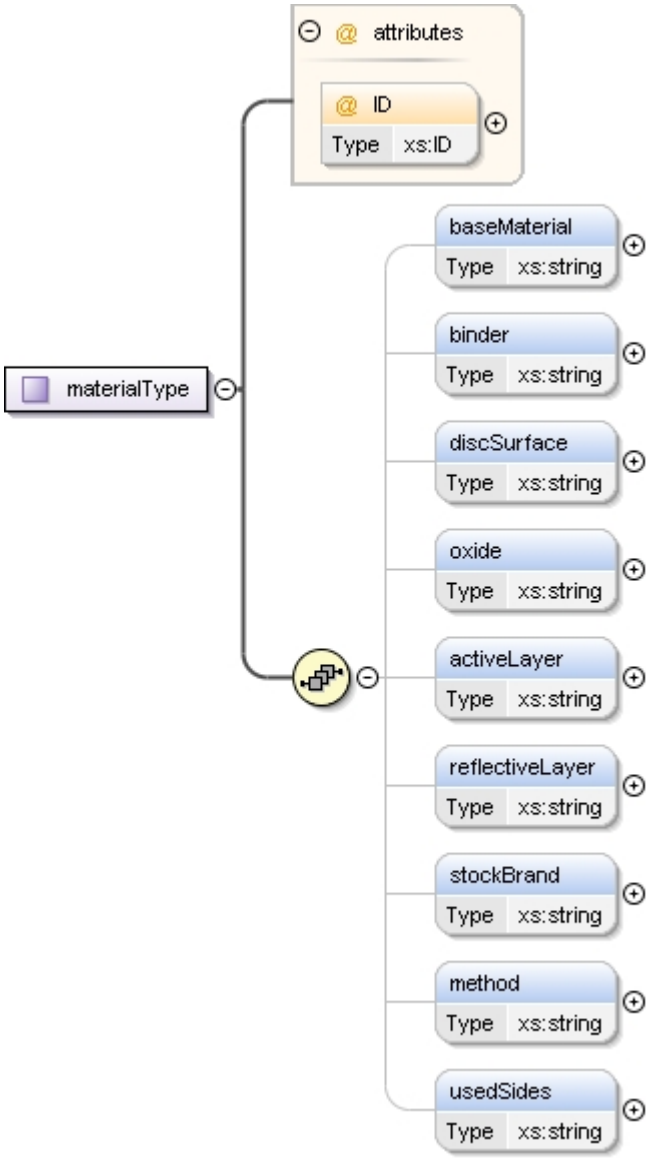
```
<xs:complexType name="dtvType">
  <xs:annotation>
    <xs:documentation>dtvType: complexType for recording Information about a high definition
                              TV video source item. dtvType has 1 attribute ID (XML ID) and 4 elements
dtvAspectRatio, dtvNote, dtvResolution and dtvScan.</xs:documentation>
  </xs:annotation>
  <xs:sequence>
    <xs:element name="dtvAspectRatio" type="xs:string">
      <xs:annotation>
        <xs:documentation>Aspect ratio of high definition video source item expressed as ratio, e.g., 4:3,
16:9, etc.</xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="dtvNote" type="xs:string">
      <xs:annotation>
        <xs:documentation>Note about a high definition video source item.</xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="dtvResolution" type="xs:string">
      <xs:annotation>
        <xs:documentation>Resolution of high definition video source item expressed as horizontal lines.
</xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="dtvScan" type="xs:string">
      <xs:annotation>
        <xs:documentation>Indication whether high definition video source item is scanned in an interlaced or
progressive mode.</xs:documentation>
      </xs:annotation>
    </xs:element>
  </xs:sequence>
  <xs:attribute name="ID" type="xs:ID"/>
</xs:complexType>
```

[top]

Complex Type materialType

Namespace	http://www.loc.gov/videoMD/
Definition	materialType: Complex Type for recording the physical characteristics of the construction and material of an video source item. materialType has 1 attribute ID (XML ID)and 9 elements baseMaterial, binder, discSurface, oxide, activeLayer, reflectiveLayer, stockBrand, methodand usedSides.

Diagram



Used by

Element	physicalDataType/material

Model

baseMaterial{0,1} , **binder{0,1}** , **discSurface{0,1}** , **oxide{0,1}** , **activeLayer{0,1}** , **reflectiveLayer{0,1}** , **stockBrand{0,1}** , **method{0,1}** , **usedSides{0,1}**

Children

activeLayer, **baseMaterial**, **binder**, **discSurface**, **method**, **oxide**, **reflectiveLayer**, **stockBrand**, **usedSides**

Attributes

QName	Type	Fixed	Default	Use	Annotation
ID	**xs:ID**			optional	

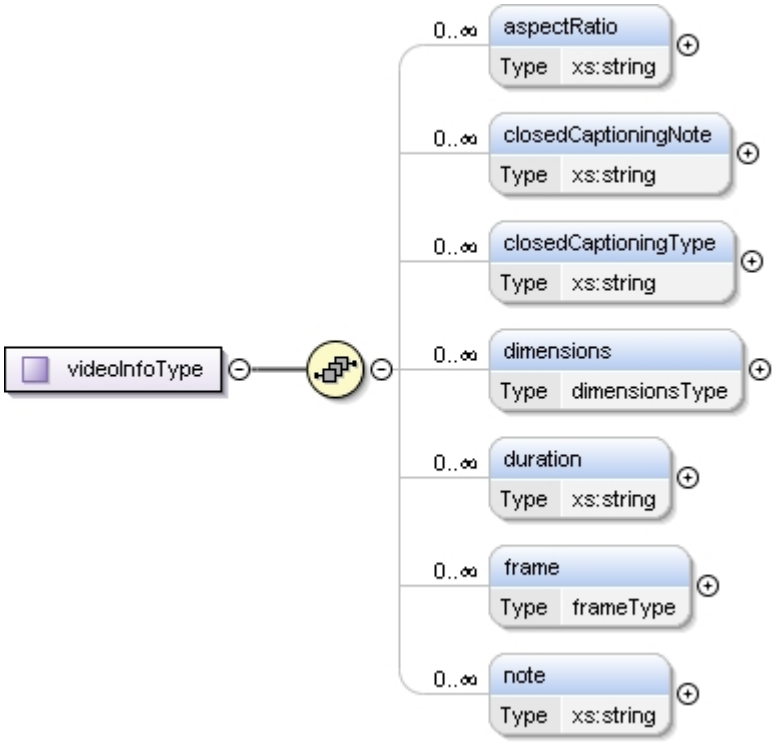
Source

```
<xs:complexType name="materialType">
  <xs:annotation>
    <xs:documentation>materialType: Complex Type for recording the physical characteristics
                              of the construction and material of an video source item. materialType has 1
                              attribute ID (XML ID)and 9 elements baseMaterial, binder, discSurface, oxide,
activeLayer, reflectiveLayer, stockBrand, methodand usedSides.</xs:documentation>
  </xs:annotation>
  <xs:sequence>
    <xs:element name="baseMaterial" type="xs:string" minOccurs="0">
      <xs:annotation>
        <xs:documentation>Base material used in the recording carrier e.g., plastic, glass, vinyl, mylar,
etc..</xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="binder" type="xs:string" minOccurs="0">
      <xs:annotation>
        <xs:documentation>Type of adhesive used to bind recording surface to the substrate</xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="discSurface" type="xs:string" minOccurs="0">
      <xs:annotation>
        <xs:documentation>Type of recording surface aluminium, celluloid etc..</xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="oxide" type="xs:string" minOccurs="0">
      <xs:annotation>
        <xs:documentation>Type of oxide used for the coating of a tape recording, e.g.cobalt, chromium
dioxide, ferrous oxide.</xs:documentation>
      </xs:annotation>
    </xs:element>
```

```
    <xs:element name="activeLayer" type="xs:string" minOccurs="0">
      <xs:annotation>
        <xs:documentation>Type of material used on the recording surface, e.g. dye, tellurium-selenium alloy,
etc..</xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="reflectiveLayer" type="xs:string" minOccurs="0">
      <xs:annotation>
        <xs:documentation>Type of material used on the recordings reflective surface, e.g. gold, silver
aluminium etc..</xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="stockBrand" type="xs:string" minOccurs="0">
      <xs:annotation>
        <xs:documentation>Name of the manufacturer of the recording medium, e.g. Scotch, Maxell, Sony, etc...
</xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="method" type="xs:string" minOccurs="0">
      <xs:annotation>
        <xs:documentation>Methods to press music records e.g. "Direct metal", "Lacquer Master", "Metal
Master", "Metal mother", "Pressing", "Metal stamper" and "Test pressing".</xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="usedSides" type="xs:string" minOccurs="0">
      <xs:annotation>
        <xs:documentation>Number of recorded sides of the material</xs:documentation>
      </xs:annotation>
    </xs:element>
  </xs:sequence>
  <xs:attribute name="ID" type="xs:ID"/>
</xs:complexType>
```

[top]

Complex Type videoInfoType

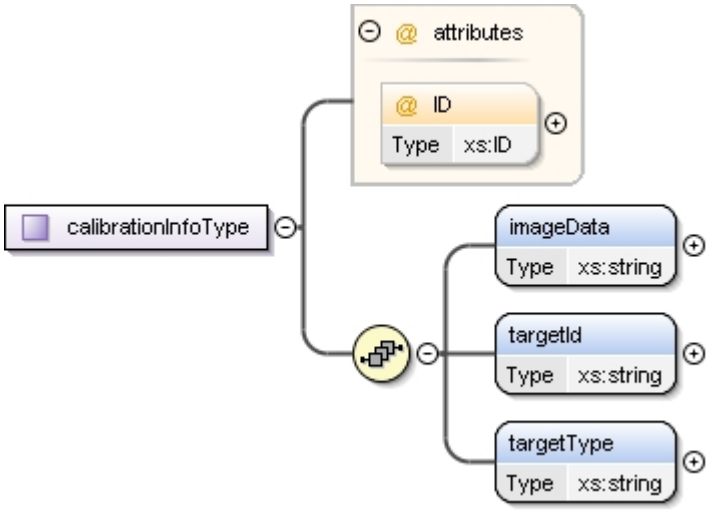
Namespace	http://www.loc.gov/videoMD/
Diagram	
Used by	Element **videoType/videoInfo**
Model	**aspectRatio*** , **closedCaptioningNote*** , **closedCaptioningType*** , **dimensions*** , **duration*** , **frame*** , **note***
Children	**aspectRatio**, **closedCaptioningNote**, **closedCaptioningType**, **dimensions**, **duration**, **frame**, **note**
Source	


```
<xs:complexType name="videoInfoType">
  <xs:sequence>
    <xs:element name="aspectRatio" type="xs:string" minOccurs="0" maxOccurs="unbounded">
      <xs:annotation>
        <xs:documentation>The desired aspect ratio of the image on screen, e.g., 4:3, etc. Some files
produced for display on non-square-pixel monitors have a desired aspect ratio that differs from the ratio of
horizontal to vertical pixels.</xs:documentation>
      </xs:annotation>
    </xs:element>
```

```
    <xs:element name="closedCaptioningNote" type="xs:string" minOccurs="0" maxOccurs="unbounded">
      <xs:annotation>
        <xs:documentation>Notes about the closed captioning in a video source item.</xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="closedCaptioningType" type="xs:string" minOccurs="0" maxOccurs="unbounded">
      <xs:annotation>
        <xs:documentation>The type of closed captioning in a video source item.</xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="dimensions" type="dimensionsType" minOccurs="0" maxOccurs="unbounded"/>
    <xs:element name="duration" type="xs:string" minOccurs="0" maxOccurs="unbounded">
      <xs:annotation>
        <xs:documentation>Elapsed time of the entire file, expressed using ISO 8601 syntax; see
http://www.w3.org/TR/NOTE-datetime.</xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="frame" type="frameType" minOccurs="0" maxOccurs="unbounded"/>
    <xs:element name="note" type="xs:string" minOccurs="0" maxOccurs="unbounded">
      <xs:annotation>
        <xs:documentation>Miscellaneous information about the video file. e.g. digital alterations or
enhancements to improve quality.</xs:documentation>
      </xs:annotation>
    </xs:element>
  </xs:sequence>
</xs:complexType>
```

[top]

Complex Type calibrationInfoType

Namespace	http://www.loc.gov/videoMD/
Definition	calibrationInfoType: Complex Type for recording the type of calibration used for a digital video file. calibrationInfoType has 1 attribute ID (XML ID) and 3 elements imageData, targetId and targetType.
Diagram	
Used by	Element **videoType/calibrationInfo**
Model	**imageData** , **targetId** , **targetType**
Children	**imageData**, **targetId**, **targetType**

Attributes

QName	Type	Fixed	Default	Use	Annotation
ID	**xs:ID**			optional	

Source

```
<xs:complexType name="calibrationInfoType">
  <xs:annotation>
    <xs:documentation>calibrationInfoType: Complex Type for recording the type of
                      calibration used for a digital video file. calibrationInfoType has 1
attribute ID (XML ID) and 3
                      elements imageData, targetId and targetType.</xs:documentation>
  </xs:annotation>
  <xs:sequence>
    <xs:element name="imageData" type="xs:string">
      <xs:annotation>
        <xs:documentation>Location of the calibration target file if not contained within the image file
(external) e.g. URN, URL, etc..</xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="targetId" type="xs:string">
      <xs:annotation>
        <xs:documentation>Calibration target name, manufacturer, version, etc..</xs:documentation>
      </xs:annotation>
```

```
    </xs:element>
    <xs:element name="targetType" type="xs:string">
      <xs:annotation>
        <xs:documentation>Identifies the calibration target image as internal or external to the image file
itself.</xs:documentation>
      </xs:annotation>
    </xs:element>
  </xs:sequence>
  <xs:attribute name="ID" type="xs:ID"/>
</xs:complexType>
```

[top]

Attribute trackingInfoType / @ID

Namespace	No namespace
Type	**xs:ID**
Properties	Content: **simple**
Used by	Complex Type **trackingInfoType**
Source	`<xs:attribute name="ID" type="xs:ID"/>`

[top]

Attribute variableRateType / @maximum

Namespace	No namespace
Type	**xs:decimal**
Properties	Content: **simple**
Used by	Complex Type **variableRateType**
Source	`<xs:attribute name="maximum" type="xs:decimal"/>`

[top]

Attribute variableRateType / @minimum

Namespace	No namespace
Type	**xs:decimal**
Properties	Content: **simple**
Used by	Complex Type **variableRateType**
Source	`<xs:attribute name="minimum" type="xs:decimal"/>`

[top]

Attribute variableRateType / @nominal

Namespace	No namespace
Type	**xs:decimal**
Properties	Content: **simple**
Used by	Complex Type **variableRateType**
Source	`<xs:attribute name="nominal" type="xs:decimal"/>`

[top]

Attribute variableRateType / @mode

Namespace	No namespace
Definition	Indicator that the rate of the video is fixed or variable.
Type	restriction of **xs:string**
Properties	Content: **simple**
Facets	Enumeration **Fixed** Enumeration **Variable**

Used by	Complex Type **variableRateType**
Source	<xs:attribute name="mode"> <xs:annotation> <xs:documentation>Indicator that the rate of the video is fixed or variable.</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:string"> <xs:enumeration value="Fixed"/> <xs:enumeration value="Variable"/> </xs:restriction> </xs:simpleType> </xs:attribute>

[top]

Attribute variableRateType / @unit

Namespace	No namespace
Type	**xs:string**
Properties	Content: **simple**
Used by	Complex Type **variableRateType**
Source	<xs:attribute name="unit" type="xs:string"/>

[top]

Attribute timecodeInfoType / @ID

Namespace	No namespace
Type	**xs:ID**
Properties	Content: **simple**
Used by	Complex Type **timecodeInfoType**
Source	<xs:attribute name="ID" type="xs:ID"/>

[top]

Attribute messageDigestType / @ID

Namespace	No namespace
Type	**xs:ID**
Properties	Content: **simple**
Used by	Complex Type **messageDigestType**
Source	<xs:attribute name="ID" type="xs:ID"/>

[top]

Attribute compressionType / @ID

Namespace	No namespace
Type	**xs:ID**
Properties	Content: **simple**
Used by	Complex Type **compressionType**
Source	<xs:attribute name="ID" type="xs:ID"/>

[top]

Attribute string.version / @version

Namespace	No namespace
Used by	Complex Type **string.version**
Source	<xs:attribute name="version"/>

[top]

Attribute frameType / @ID

Namespace	No namespace
Type	**xs:ID**
Properties	Content: **simple**
Used by	Complex Type **frameType**
Source	`<xs:attribute name="ID" type="xs:ID"/>`

[top]

Attribute trackDataType / @ID

Namespace	No namespace
Type	**xs:ID**
Properties	Content: **simple**
Used by	Complex Type **trackDataType**
Source	`<xs:attribute name="ID" type="xs:ID"/>`

[top]

Attribute trackDataType / @num

Namespace	No namespace
Type	**xs:nonNegativeInteger**
Properties	Content: **simple**
Used by	Complex Type **trackDataType**
Source	`<xs:attribute name="num" type="xs:nonNegativeInteger"/>`

[top]

Attribute trackDataType / @type

Namespace	No namespace
Type	**xs:string**
Properties	Content: **simple**
Used by	Complex Type **trackDataType**
Source	`<xs:attribute name="type" type="xs:string"/>`

[top]

Attribute fileDataType / location / @type

Namespace	No namespace
Type	restriction of **xs:string**
Properties	Use: **required**
Facets	Enumeration **URN** Enumeration **URL** Enumeration **PURL** Enumeration **HANDLE** Enumeration **DOI** Enumeration **OTHER**
Used by	Element **fileDataType/location**

Source	`<xs:attribute name="type" use="required">`
	`  <xs:simpleType>`
	`  <xs:restriction base="xs:string">`
	`  <xs:enumeration value="URN"/>`
	`  <xs:enumeration value="URL"/>`

```
      <xs:enumeration value="PURL"/>
      <xs:enumeration value="HANDLE"/>
      <xs:enumeration value="DOI"/>
      <xs:enumeration value="OTHER"/>
    </xs:restriction>
  </xs:simpleType>
</xs:attribute>
```

[top]

Attribute fileDataType / location / @otherType

Namespace	No namespace
Type	**xs:string**
Properties	Use: **optional**
Used by	Element **fileDataType/location**
Source	`<xs:attribute name="otherType" type="xs:string" use="optional"/>`

[top]

Attribute dimensionsType / @DEPTH

Namespace	No namespace
Definition	The depth of the object in the unit of measure indicated in dimensions_unit, e.g., 7, 12.
Type	**xs:float**
Properties	Content: **simple**
Used by	Complex Type **dimensionsType**
Source	`<xs:attribute name="DEPTH" type="xs:float"> <xs:annotation> <xs:documentation>The depth of the object in the unit of measure indicated in dimensions_unit, e.g., 7, 12.</xs:documentation> </xs:annotation> </xs:attribute>`

[top]

Attribute dimensionsType / @DIAMETER

Namespace	No namespace
Definition	The diameter of any circular object expressed in the unit of measure indicated in dimensions_unit, e.g., 3.5, 5, 7.
Type	**xs:float**
Properties	Content: **simple**
Used by	Complex Type **dimensionsType**
Source	`<xs:attribute name="DIAMETER" type="xs:float"> <xs:annotation> <xs:documentation>The diameter of any circular object expressed in the unit of measure indicated in dimensions_unit, e.g., 3.5, 5, 7.</xs:documentation> </xs:annotation> </xs:attribute>`

[top]

Attribute dimensionsType / @GAUGE

Namespace	No namespace
Definition	Gauge or width of source tape, including indication of unit of measure, e.g., 8 mm, 0.5 inch, 0.25 inch, etc..
Type	**xs:string**
Properties	Content: **simple**
Used by	Complex Type **dimensionsType**
Source	`<xs:attribute name="GAUGE" type="xs:string"> <xs:annotation> <xs:documentation>Gauge or width of source tape, including indication of unit of measure, e.g., 8 mm, 0.5 inch, 0.25 inch, etc..</xs:documentation>`

```
  </xs:annotation>
</xs:attribute>
```

[top]

Attribute dimensionsType / @HEIGHT

Namespace	No namespace
Definition	Height of the object in the unit of measure indicated in dimensions_unit, e.g., 23.
Type	**xs:float**
Properties	Content: **simple**
Used by	Complex Type **dimensionsType**
Source	

```
<xs:attribute name="HEIGHT" type="xs:float">
  <xs:annotation>
    <xs:documentation>Height of the object in the unit of measure indicated in dimensions_unit, e.g., 23.
</xs:documentation>
  </xs:annotation>
</xs:attribute>
```

[top]

Attribute dimensionsType / @LENGTH

Namespace	No namespace
Definition	Length of source open-reel tape recording, including indication of unit of measure, e.g., 700 feet, 1200 feet, etc..
Type	**xs:string**
Properties	Content: **simple**
Used by	Complex Type **dimensionsType**
Source	

```
<xs:attribute name="LENGTH" type="xs:string">
  <xs:annotation>
    <xs:documentation>Length of source open-reel tape recording, including indication of unit of measure,
e.g., 700 feet, 1200 feet, etc..</xs:documentation>
  </xs:annotation>
</xs:attribute>
```

[top]

Attribute dimensionsType / @NOTE

Namespace	No namespace
Definition	Desciption of odd-shaped objects that cannot be described using the standard dimensions fields.
Type	**xs:string**
Properties	Content: **simple**
Used by	Complex Type **dimensionsType**
Source	

```
<xs:attribute name="NOTE" type="xs:string">
  <xs:annotation>
    <xs:documentation>Desciption of odd-shaped objects that cannot be described using the standard dimensions
fields.</xs:documentation>
  </xs:annotation>
</xs:attribute>
```

[top]

Attribute dimensionsType / @THICKNESS

Namespace	No namespace
Definition	The thickness of the medium unwound (e.g. tape)
Type	**xs:string**
Properties	Content: **simple**
Used by	Complex Type **dimensionsType**
Source	

```
<xs:attribute name="THICKNESS" type="xs:string">
  <xs:annotation>
    <xs:documentation>The thickness of the medium unwound (e.g. tape)</xs:documentation>
```

```
  </xs:annotation>
</xs:attribute>
```

[top]

Attribute dimensionsType / @UNITS

Namespace	No namespace
Definition	Unit of measurement of the source object, e.g., inches.
Type	**xs:string**
Properties	Content: **simple**
Used by	Complex Type **dimensionsType**
Source	

```
<xs:attribute name="UNITS" type="xs:string">
  <xs:annotation>
    <xs:documentation>Unit of measurement of the source object, e.g., inches.</xs:documentation>
  </xs:annotation>
</xs:attribute>
```

[top]

Attribute dimensionsType / @WIDTH

Namespace	No namespace
Definition	Width of any non-circular object expressed in the unit of measure indicated in dimensions_unit, e.g., 3.5, 5, 7.
Type	**xs:float**
Properties	Content: **simple**
Used by	Complex Type **dimensionsType**
Source	

```
<xs:attribute name="WIDTH" type="xs:float">
  <xs:annotation>
    <xs:documentation>Width of any non-circular object expressed in the unit of measure indicated in
dimensions_unit, e.g., 3.5, 5, 7.</xs:documentation>
  </xs:annotation>
</xs:attribute>
```

[top]

Attribute dtvType / @ID

Namespace	No namespace
Type	**xs:ID**
Properties	Content: **simple**
Used by	Complex Type **dtvType**
Source	

```
<xs:attribute name="ID" type="xs:ID"/>
```

[top]

Attribute materialType / @ID

Namespace	No namespace
Type	**xs:ID**
Properties	Content: **simple**
Used by	Complex Type **materialType**
Source	

```
<xs:attribute name="ID" type="xs:ID"/>
```

[top]

Attribute calibrationInfoType / @ID

Namespace	No namespace
Type	**xs:ID**
Properties	Content: **simple**
Used by	Complex Type **calibrationInfoType**

Source	<xs:attribute name="ID" type="xs:ID"/>

[top]

Attribute videoType / @ID

Namespace	No namespace	
Type	**xs:ID**	
Properties	Content:	**simple**
Used by	Complex Type	**videoType**
Source	<xs:attribute name="ID" type="xs:ID"/>	

[top]

Attribute videoType / @ANALOGDIGITALFLAG

Namespace	No namespace	
Type	restriction of **xs:NMTOKEN**	
Properties	Use:	**required**
Facets	Enumeration	**Analog**
	Enumeration	**PhysDigital**
	Enumeration	**FileDigital**
Used by	Complex Type	**videoType**

Source

```
<xs:attribute name="ANALOGDIGITALFLAG" use="required">
  <xs:simpleType>
    <xs:restriction base="xs:NMTOKEN">
      <xs:enumeration value="Analog"/>
      <xs:enumeration value="PhysDigital"/>
      <xs:enumeration value="FileDigital"/>
    </xs:restriction>
  </xs:simpleType>
</xs:attribute>
```

[top]

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